David Paul Conteh

Software Engineer

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NIN: 0WDGPROS

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Profile

I'm a passionate and skilled software engineer with a strong background in full-stack development, cloud computing, and automation. I have experience in building and deploying web and mobile applications, AI apps, managing databases, and optimizing workflows. I am committed to continuous learning and thrive in challenging environments that foster growth and innovation.

Education

Holberton School & ALX Africa
Professional Certificate in Software Engineering (Graduated)

ST Edwards Secondary School
Graduated High School

Certifications:

- Meta Back-End Developer Professional Certificate – Coursera
- Meta Front-End Developer Professional Certificate – Coursera
- Meta Programming With Javascript Professional Certificate – Coursera
- Meta Version Control Professional Certificate – Coursera
- Meta HTML5 & CSS In depth Professional Certificate – Coursera
- Introduction to Cybersecurity Awareness - HP Life

Technical Skills

Languages: C, Python, JavaScript, SQL, HTML5, CSS, Bash Scripting, nextjs

Frameworks & Libraries: Django, Flask, jQuery, TailwindCSS, SQLAlchemy, MongoDB, Redis, React, jinja2, basic knowledge of react native, docker.

Tools & Technologies: Version control (Git & GitHub), MySQL, Nginx, HAProxy, Gunicorn, Docker, DevOps

Cloud Providers: Google Cloud, AWS, DigitalOcean, Linode

Operating Systems: Linux (Ubuntu), Windows

Design and prototype: proficient in Figma and adobeXD, with basic knowledge of photoshop

Other Skills: Agile methodologies, REST API Building, GRAPHQL API, System Administration, Shell Scripting, Networking, Postmortem, Collaboration and creative problem solving, writing unittest and doctests with python.

Software Projects

LIA: https://github.com/tenacityventure/lia - **ongoing** - Founder and Lead Developer - Present
Website: https://getlia.live
Associated with Tenacity
https://github.com/davidddeveloper/lia

- Developed and led a team both as the founder and lead software developer to develop a chrome extension that leverages genAI to help linkedin users to write better posts and comments.
- **What I developed**: leverages modern technologies including google gemini to create the fine-tuning platform (https://ai-finetune.davidconteh.engineer) that exposes an api, manifest v3 for chrome extension development, nodejs+express and supabase for api-server, vercel for web and serverless hosting.
- **Leadership:** Understands team members strength and weaknesses, as well as taking into consideration their different time zones. Assign tasks to team members. Creating user stories, setting deadlines, tracking projects on trello board and github projects. Encouraging them to think outside of the box, take initiative and just execute. **Result**: motivated team members who see the work as personal to them.
- Managed many aspects of the backend and assisted greatly on the project including design, backend and frontend development, and server deployment.
- Hosted the website on vercel and the fine-tuning platform on render. Planning to dockerized the API Server and deploy on AWS Compute using Nginx, as well as deploying a custom models on a gpu and setting up amazon cloud watch / other monitoring tools
- Architecture:

    lia architecture

Malify – Chrome Extension: https://malify.davidconteh.engineer - ongoing - not live online yet
Founder & Developer

- Designed and developed a chrome extension to help gmail users stay productive and never miss an important email.
- **What I developed**: A Chrome extension, An API, A Fine Tuned model, A landing page with login and registration using nextjs nextauth and google OAuth2.
- Managed many aspects of the project including design, backend and frontend development, and server deployment.
- Hosted the website on AWS Compute Linux Ubuntu using Nginx and express. Utilize express for backend and TailwindCSS & javascript for frontend, VScode, gemini for AI model and redis for caching the fine-tuned model.
- Developed RESTFUL APIs for the frontend to interact with.

FarmWise – Webstack Application: farmwise.davidconteh.engineer - ongoing
Founder & Developer

- Designed and developed a web and mobile app to help farmers farm sustainably.
- **What I developed**: A Mobile app, A Website, An API, A Fine Tuned model (friendly agricultural expert), A fine Tuned Model.
- Managed all aspects of the project so far, including design, backend and frontend development, and server deployment.
- Mobile screens: Home page, Iot Dashboard, Socialize screen (farmers can document their farming), Login Screen, Registration Screen and Onboarding Screen.
- Hosted: not hosted yet
- Set up models: not setup models yet. (Users, Likes, Comments, Videos, Posts, etc)

Visualizing Network data – web app / solution
Associated with Qcell(qcell.sl)

- Though not a data scientist, I use python to analyze large data, providing visualization for it.
- **What I Handled**: Super confidential. Not going in depth. However I leverages python and pandas

Qcell Website – Website: qcell.sl - Ongoing - not live online yet - but can be viewed at (https://qcell.davidconteh.engineer)
Associated with Qcell(qcell.sl)

- Design and developed a new version of the entire qcell website (abandoning the old one)
- **What I Handled**: Both design and code. Handled development with nextjs and framer motion.
- Managed most aspects of the project including design, backend and frontend development, and server deployment.
- Hosted the website on AWS Compute Linux Ubuntu using Nginx and express. Utilize express for backend and TailwindCSS & javascript for frontend, VScode, gemini for AI model and redis for caching the fine-tuned model.
- Set up models for Users with mongodb, ensuring security by hashing the password. Developed RESTFUL APIs for the frontend to interact with.

Sim Registration: https://github.com/davidddeveloper/qcell-sim-registration
Associated with Qcell (qcell.sl) (Team project)

- Work together with a frontend developer to develop a flutter mobile application for registering users sim (standard and Esim)
- **What I developed**: A graphql API, API authentication using jwt
- Managed all aspects of the backend and assisted greatly on the project including design, backend and frontend development, and server deployment.
- Dockerized the application and hosted the website on AWS Compute Linux Ubuntu using Nginx, gunicorn and django with a custom domain. Utilize

Python, Django and graphedjango for the GraphQL api, as well as docker and mysql.

- Set up models for Users, Customers, StandardSim, Esim, ensuring security by hashing the password and ensuring uniqueness on the db (like no two phone numbers can be registered).

GitAuto – WebStack Portfolio: gitauto.davidconteh.engineer - November 2024
Founder & Developer

- Design and developed a web stack application for generating industry like commit messages.
- **What I developed**: A VScode extension, An API, A Fine Tuned model, A landing page with login and registration using jwt and user session management.
- Managed all aspects of the project including design, backend and frontend development, and server deployment.
- Hosted the website on AWS Compute Linux Ubuntu using Nginx and express. Utilize express for backend and TailwindCSS & javascript for frontend, VScode, gemini for AI model and redis for caching the fine-tuned model.
- Set up models for Users with mongodb, ensuring security by hashing the password. Developed RESTFUL APIs for the frontend to interact with.

StoryAfrika – Portfolio: storyafrika.live - Present
Founder & Developer

- Designed and developed a full-stack web application to share stories from Africa.
- Managed all aspects of the project including design, backend and frontend development, and server deployment.
- Hosted the website on Linux Ubuntu using Nginx, with Flask for backend and TailwindCSS & jQuery for frontend.

- Set up models for Story, Comment, CommentLike, CommentUnLike, Bookmark, Topic, Like and User with SQLAlchemy, ensuring proper relationship management and cascading deletions. Developed RESTFUL APIs for the frontend to interact with.
- Architecture:
- [StoryAfrica production Architecture](#)

AirBnB Clone

- Develop the underlying software architecture of what AirBnB would look like, as well as part of the UI.
- The main part of this project focuses on developing the underlying architecture with flask, including mapping models to mysql database using SQLAlchemy, RESTFUL apis, console - to interact with the application via the linux terminal, writing unittest etc.
- Hosted on my school servers, with two dedicated servers where I configured a MYSQL master-slave replication. Additionally I configured an HAProxy Load Balancer to distribute traffic to the two servers using the round robin algorithm

CMS - customer management system **-** 2022

- Developed a robust full-stack CRUD web application for business owners to place, update, delete and track an order for a customer.
- Managed all aspects of the project backend and frontend
- Hosted on heroku without a custom domain, Use Cloudinary as the cdn for media files, and django for backend. Not hosted anymore.
- Special features like pagination, filtering and adding multiple orders using one form were incorporated into the application.

Balkie Enterprise (cms) - Customer Remittance management system - ongoing

- Developed the basic mvp including a dashboard for adding customers, viewing customers details, deleting customers and filtering.
- Hosted: not hosted yet

These are just a few of the projects I could mention here. For more details (like data structures and algorithms) visit my github account: https://github.com/davidddeveloper

And to see my complete journey visit: https://github.com/daveman-stack
https://www.frontendmentor.io/profile/DaveMan-stack

Professional Experience

Telecommunication Company - QcellSL – November 2024 to May 2025
Company: *QcellSL (Telecommunication company)*

Role: SWAT Intern (like special force - everything software engineering)

- Along with a colleague we design, developed, and present a sim registration app built with flutter to the CEO and marketing Manager. Currently I'm working on redesigning and rebuilding their entire website.
- Skills acquired: graphql, collaboration, communication
- Skills used: Creativity, Python + Django + pandas, docker, figma + design, javascript + react
- Identify one key area where the business can use AI to be more efficient, save cost and generate revenue and currently building a software solution for QcellSL

Printing and Stationery and Remittance Agent Shop – 2023
Company: *Balkie Enterprise*

Role: salesboy, remittance agent

- Handle the shop's services, including remittances (RIA, MoneyGram, Afro) and document handling (typing, editing, printing, photocopying).

- Skills acquired: communication, negotiation and customer relationship tactics.
- Identify areas where the business can use technology to be more efficient and currently building a software solution for balkie enterprise.

Delivery Service Company (sendmesl) – 2024

Company: *sendmesl (sendmesl.com)*

Role: *Order Monitoring Officer*

- I was responsible to ensure effective monitoring and recording of all delivery orders
- My job also includes tracking and updating the availability and current location of all riders.
- My job also includes making suggestions to the dispatcher to optimize delivery efficiency and record any instances where a better decision could have been made.
- Skills acquired: communication, leadership and teamwork.

Interest and Hobbies

Coding, reading and walking

Languages

English and Krio

References

Available upon request.