

Jake Mofa

Software Engineer

[LinkedIn](#) | 209-362-7518 | [Portfolio](#) | Jakemofabd@gmail.com | [GitHub](#)

Innovative and solutions-focused Software Engineer with deep expertise in both front-end and back-end architectures. Skilled in developing scalable and maintainable web applications using modern web technologies and cloud systems. Deep depth level of Database Management and implementation

WORK EXPERIENCE

Software Engineer II	Vendo	Los Angeles CA	11/2022 - Present
<ul style="list-style-type: none">Led the design of a B2B dashboard application and developed this application using a microservice architecture on AWS, with Javascript, Express.js, MYSQL, Aws Functions, and AWS secret manager, driving \$35.3 million of revenue annually.Guided the migration of a real-time data analytics dashboard application, Transitioned from PHP to React for the front-end and to Node.js for the backend, improving page load times by 20%.Added Redis cache layer between the microservices and database, reducing database traffic by 40% and saving over \$20000 in RDS operation cost.Migrated the application from a serverless deployment to a microservice architecture. Deployed and managed on Kubernetes with a local development version on Docker.Developed a PHP REST API that handles serverless communication between frontend-backend, reducing data transfer time by 30% and implementing Amazon Ads and Sponsored Product API integration for dashboard advertising metrics(CPC, SP,SB).Automated data reporting pipeline using Python to generate daily reports and detect data anomalies using AWS Lambda.Built responsive data charting and visualization reports dashboards with React and Redux from SQL DB and Amazon Marketing Cloud.Used Amazon CloudWatch Logs for logging database queries, data metrics, and API requests, setting alarms to detect API downtime and ensure system reliability.Supported data analysis and real-time analytics tracking, ensuring KPIs were met by automating reporting pipelines and integrating data visualization dashboards.Collaborated with cross-functional teams, driving solutions for operational optimization, and managing API integration for marketing metrics and dashboard toolsAnalyze and interpreted data from Amazon Marketing Cloud, using Advanced SQL queries, to review and maintain reports			
Software Engineer (contract)	Phenotype	NewYork, NY	01/2023 - 03/2023
<ul style="list-style-type: none">Engineered an Operator Controller (GUI) using JavaScript and React for Electroencephalography(EEG) data collection and processing, integrating Petal Metrics API through Python for real-time data transmission to Blender.Developed a dynamic data visualization platform using Python with AWS SDK(boto3), to automate the export of 3D models from Blender to AWS S3, integrating with Shopify webhooks to handle account-based events using the Shopify API.Designed a comprehensive VR animation automation pipeline using React.js, Blender, and AWS Lambda, ensuring seamless data transfer and animation triggeringDeveloped JavaScript scripts using AWS SDK to securely display 3D files from the AWS S3, on custom Shopify pages, allowing client's to purchase on their accounts.			
Backend Developer	Fashionista Africa	Douala, Cameroon	02/2020 - 03/2021
<ul style="list-style-type: none">Developed a cloud-based e-commerce platform to showcase and sell African designs and fashion products online using AWS (Elastic Beanstalk, S3, and RDS), JavaScript, React, and Node.js.Created a recommendation engine using machine learning, Python, Django PostgreSQL, and SQL to suggest African fashion products to customers based on their preferences and purchasing history.Designed and implemented an inventory management system deploying docker containers, then using Python, Django, and MySQL, to manage and track African fashion products, reducing stockouts by 25% and overstocking by 30%Created a machine learning recommendation engine, providing customers with personalized product suggestions, leveraging data analytics to improve customer retention.			

EDUCATION

Bachelor of Computer Science A.S of Computer Science	<u>San Jose State University</u> <u>San Joaquin Delta College</u>	San Jose, Ca, Stockton, CA	01/2022 - 01/2023 01/2020 - 01/2022
---	--	-------------------------------	--

Certification

- Google IT Automation with Python Professional Certificate.
- Meta Back-end Developer: Professional Certificate
- Javascript Deeper Dive: Certification issued by Scrimba.
- Amazon Marketing Cloud Certification issues by AWS
- Front End Developer Career Path: Certificate
- AWS Certified Cloud Practitioner issued by AWS

PROJECTS

Software Engineer	Envixus	LA, CA	07/2024 - Present
<ul style="list-style-type: none">Designed and implemented a comprehensive system Design of a scalable B2B automotive analytics platform with React for frontend, Node.js as an API gateway, and Django backend, enabling a secure and scalable platform for real-time data analytics.Engineered a Data Collection Service using Python and Django, integrating web scraping and API connections (Marketcheck, VinAudit) with Redis caching for immediate access capturing real-time vehicle data that reduced latency.Integrated machine learning models within the Analytics Service for predictive insights (demand, depreciation), leveraging Django and PostgreSQL for model training and storage, which improved the platform's predictive accuracy.Developed a Generative AI Reporting module powered by GPT-4 and custom NLP algorithms, generating user-specific reports and insights that enabled personalized customer interactions			

- **Implemented a scalable backend with Docker and Kubernetes to support horizontal scaling of high-traffic services**, ensuring the platform can handle peak loads with minimal downtime
- **Built an API gateway with Node.js to centralize routing, authentication (JWT-based), and rate-limiting**, ensuring secure user access and reducing server response time

Lead Developer | [AccountManager.ai](#)

06/2024

- Orchestrated the end-end design and implementation of a high-level architecture for managing Amazon and TikTok marketplace account
- Integrated Amazon Seller Central and TikTok Ads APIs using TypeScript, Python, and Node.js, automating data flows and improving marketing insights for platform visualization.
- Utilized MongoDB and SQL databases for efficient data management, Metrics insight and cloud-enabling advanced user targeting and ROI analysis.

Founder & Lead Developer | [Envision Dreams Technology](#)

- Founded and directed a technology company focused on developing secure, scalable web and app solutions, utilizing advanced cloud computing and cybersecurity techniques to enhance digital transformation across various sectors.

[NFT Network Analysis](#)

Executed in-depth NFT data analysis using Machine Learning, SQLite and pandas, pinpointing the top 5 projects by volume.

[SKILLS](#)

Python | PHP | C# | Node.JS | JavaScript | TypeScript | HTML5 | CSS3 | Java | MySQL | SQL | NoSQL | PostgreSQL | REST API |

Express | Flask | Django | React | jQuery | Bootstrap | Redux | Vue | Cloud Computing | OOP | SDLC | Kafka

Git | Docker | Kubernetes | CI/CD | AWS | CloudTrail | GCP | Azure | Jira | Jenkins | System Architecture | Redshift | Redis | DataDog |

Microservices | Distributed Systems | Frontend | Backend | Full-Stack | Cloud Computing | Scrum | DevOps | SDK

Soft skills: Communication(French, English), Problem-Solving, Critical thinking , Leadership , Adaptability, Time-Management, warehouse management system