

# JAKE MOFA

## Software Engineer

Innovative and solutions-focused Software Engineer skilled in both front-end and back-end architectures.

Delivers exceptional digital experiences using advanced algorithms, data structures, and modern web technologies.

Driven to continuously learn and stay at the forefront of technology.

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[GitHub Profile](#)

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## EXPERIENCE

### VENDO Software Engineer

Nov 2022 – Present

Los Angeles, CA

- **Architectural Leadership:** Drafted and executed a pivotal architectural transition, leading the switch from Yii2 PHP front-end to React and Laravel backend to Node.js, strengthening system performance and scalability.
- **Backend & API Innovations:** Initially crafted a PHP REST API that bridged frontend and backend communications, reducing API call overheads. Later transitioned to a Nest.js REST API for advanced efficiency and capability, smoothly integrating Amazon's SP and Ads APIs.
- **Cloud Integration & Management:** Deployed a diverse range of AWS services, enhancing database interactions and forging a real-time, dynamic company dashboard. Services included EC2, Lambda, AMC, S3, RDS, and Elastic Beanstalk.
- **Containerization & Deployment:** Implemented Docker and Kubernetes containers for frontend and backend, ensuring agile and streamlined deployments.
- **Data Reporting & Front End:** Built a reactive UI platform using JS scripts and frameworks with React, Express, and Redux to aid company dashboard visualization. Utilized SQL within the AMC to craft precise data reports, further amplifying data transparency with BI tool integrations and dynamic charting within the React front-end.
- **Leadership & Collaboration:** Managed a 5-member developer team, emphasizing punctuality and process excellence; played a pivotal full-stack role from architecture to cloud management.

### Phenotype Software Engineer (Contract)

January 2023 – March 2023

New York City, NY

- **Design & Strategy:** Played a pivotal role in strategizing flow design, pioneering the implementation of APIs for seamless front-end connectivity.
- **Front-end Development:** Engineered a reactive UI platform using React and JavaScript, dedicated to the intricate display of EEG data.
- **Cross-platform Leadership:** Orchestrated the transformation of automated EEG data reports, ensuring smooth interfacing with the Petal Metrics API.
- **EEG Data Processing:** Operated Touch Designer for EEG data conversion, and furthered this with a real-time C# processing module, enhancing EEG data analysis efficiency by 25%.
- **Data Streaming & Automation:** Efficiently streamed EEG data to Touch Designer and Blender through the Petal Metrics API. Automated EEG data visualization with Python, facilitated CSV export for Unity, and orchestrated data upload from Blender to an AWS-hosted Airtable.
- **Integration & Data Transfer:** Integrated AWS Lambda and Shopify Liquid API for swift CSV exports from Airtable to Shopify, unlocking client purchases. Further streamlined data transfers to the Front-end Operator Controller (GUI) using Lambda services.

### IronMountain Database Specialist

Apr 2022 – November 2022

Livermore, CA

- **Database Operations:** Organized and sorted project components within Oracle NoSQL cloud services using advanced SQL syntax, complemented with data visualization tools.
- **Collaborative Management:** Assisted in handling Oracle NoSQL database project files, performing thorough cross-checks before coordinating with offshore teams for final assessment and deployment.
- **Process Automation:** Designed automated backup solutions using Python scripts to interact with the REST API, enhancing data storage in Oracle's cloud infrastructure.

### Fashionista Africa Backend Developer

Feb 2020 – Oct 2021

Douala, Cameroon

- **Framework Deployment:** Established a containerized Django environment using Docker, enhancing server-side integration with PostgreSQL-fed APIs.
- **Performance Tuning:** Refined PostgreSQL queries, leading to a boost in site responsiveness and a 20% cost saving on database operations.
- **API Collaboration:** Spearheaded efforts with the backend team to optimize APIs, realizing a 28% cut in API request queries.
- **AWS Utilization:** Leveraged CloudWatch Logs for API monitoring and harnessed Lambda for real-time notification delivery.

## SKILLS & PROJECTS

### Software skills

- **Languages:** Python, PHP, C#, Node.JS, JavaScript, TypeScript, HTML5, CSS3
- **Frameworks & Libraries:** Express, Flask, Django, React, JQuery, Bootstrap
- **Database Management:** MySQL, NoSQL, PostgreSQL, Amazon Redshift
- **Cloud & DevOps:** Git, Kubernetes, CI/CD, Docker, Linux, AWS, Azure, Jira, Jenkins
- **Specializations:** REST API, Application Architecture, Performance Optimization

### Awards

- **Amazon AWS DevSummit 2023: Attendee**
- Google IT Automation with Python Professional Certificate
- Meta Back-end Developer: Professional Certificate
- Javascript Deeper Dive: Certification issued by Scrimba
- Front End Developer Career Path: Certificate

### Projects

#### Ethereum AI Forecaster

Architected an Ethereum price forecasting tool using Python, Jupyter notebooks, pandas, and y-finance

#### NFT Network Analysis

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

#### Python MS Office 365-Stock-Data-visualization

Designed a live visualization tool for MS Office stock data, facilitating data storage in CSV format.

## EDUCATION

B.S. Computer Science\*

San Jose State University (SJSU) | January 2022 -2024

A.S. Computer Science\*

San Joaquin Delta College | January 2020 - 2022