Joshua Lindsay *Software Engineer*

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Profile

I am a **former math teacher** *turned* **Full Stack Engineer** with a passion for building data-intensive UIs that leverage APIs and cloud services. From teaching math to at-risk students to parenting kids in foster care to supporting our customers' observability needs, **I love solving problems with and for people.**

Professional Experience

Software Developer, *Indie Energy* ⬀   2024 – present
- Built **Vue** dashboards with dynamic data integrations tailored to client devices and energy market data
- Developed an observability dashboard of critical performance data from ~2,000 production devices
- Configured and end-to-end tested custom and generic **Modbus servers**, ingesting MQTT data from multiple device payloads and sending site commands via **AWS IoT Core**
- Implemented battery degradation warranty logic based on specs, backfilled data using **AWS Athena** and **RDS**, and automated daily calculations with **Lambda** and **EventBridge**
- Formalized our **REST API's Postman Collection** for external integration by customers and third parties
- Built dynamic SVG diagrams of industry standard energy control applications for real-time visualization
- Wrote a Python class for Modbus register transformations including bit-packing of status words
- Deployed services to Linux using **Ansible playbooks** and manual **Docker Swarm/Compose** updates
- Diagnosed and resolved service issues by analyzing logs and network packet captures

Software Engineer, Creator, *Mayfly* ⬀   2023 – 2024
Mayfly is an open-source tool for hosting stateful apps as dedicated user sessions in the browser.
- Developed the automated deployment of session backends (**Docker, Docker Compose, AWS EC2**)
- Built a developer dashboard for observing live user sessions and reviewing past sessions
- Automated infrastructure provisioning of Mayfly for integration into AWS (**Packer, Terraform**)
- Authored an in-depth **case study** ⬀ that provides a comprehensive analysis of our problem domain

Math Teacher,   2019 – 2022
Frank M Tejeda Academy, Canyon Vista Middle School

Client Services Coordinator,   2012 – 2019
Element Materials Technology

Skills

Languages	Front End	Back End	Cloud/DevOps
TypeScript, JavaScript (ES6+), Python, Go	Vue 2/3, Vuetify, React, Next.js, HTML/CSS	Node.js, Express, SQL, Postgres, MySQL, Athena, DynamoDB	AWS Certified Cloud Practitioner, Docker, Ansible, Linux

Education

Capstone Program, *Launch School* ⬀   2022 – 2023
Multi-year, mastery-based software engineering curriculum

Bachelor of Arts (Business Administration),   2007 – 2010
California State University, Fullerton