

# 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

TypeScript,  
JavaScript (ES6+),  
Python, Go

### Front End

Vue 2/3, Vuetify,  
React, Next.js,  
HTML/CSS

### Back End

Node.js, Express,  
SQL, Postgres, MySQL,  
Athena, DynamoDB

### Cloud/DevOps

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*