Edwin Morlu

I solve problems and help people overcome obstacles

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WORK EXPERIENCE

Software Engineer, CS Engineering   *March 2024 – Present*

- Migrate **React** functional components and associated unit tests from **JavaScript** to **TypeScript**, automatically enforce strict type safety, reducing runtime errors, easing debugging and improving code maintainability and readability.
- Revamp core Client Management Platform, changing legacy **Node.js** and **Express** API layer to **TypeScript**, utilizing the business' main revenue driver, improving overall deployment confidence and improving DX.
- Modernize an outdated email marketing messaging system to **EventBridge** and **SNS**, decreasing overall compute costs by 10% and minimizing points of failure while increasing flexibility.
- Achieve over 95% test coverage for backend unit tests in **Jest**, bolster the stability of a **CI/CD** pipeline.
- Manage **AWS** services (**EC2**, **Elastic Beanstalk**, and **RDS**) deploying a web application serving 200,000 annual users.

Software Engineer, Faros Scope (Open Source)   *July 2023 – March 2024*

- Deployed monitoring system for **Kubernetes** clusters, built API layer utilizing **Docker** to compose **Node.js** microservice for interacting deployed K8 control plane through Kubernetes API, rendered meaningful metrics as charts, gauges, graphs using **React**.
- Implemented **Express.js** to construct middleware functions in **RESTful API** pattern for staging and transforming raw data in metrics, managed client side through the cache of **Redux Toolkit Query** state manager.
- Prototyped **Figma** wireframes for React function components to render charts plotting 10,000's of nodes on Canvas elements.
- Rendered Kubernetes events and status with React web components, used **React Hooks** to open **WebSocket** connection for real-time communication. Improved resource allocation efficiency and issue identification, enhancing reliability and performance optimization.

Full Stack Engineer, Self-Employed / Freelance   *August 2020 – Present*

Dev-Overflow – Policy Change Alert App

- Developed **Python** scripts automating the web scraping of select websites for new publications provided as a service to subscribed clients, designed **TypeScript** first web app to build user dashboard rendered with **React** function components.
- Built scraper suite using Python **unittest** and **Playwright** to automate data extraction and transformation, configured **GitHub Actions** Workflows to run **BASH** scripts enforcing standards of CI/CD pipeline, stored application state in **AWS DynamoDB**.
- Hosted scraper service using **AWS Lambda** to scrape on-demand, pushed notifications to subscribed clients, provided via a web application rendered with React to construct user dashboard using function components.

goFetch – eCommerce Web Extension

- Created browser extension for Chrome sidepanel, delivered a companion web app persisting a single cart across user navigation.
- Made extension web pages out of functional web components built with **React**, leveraged React Hooks to access DOM lifecycle, for making requests when app mounts, caching return of **GraphQL** endpoint call.
- Maintained application state using **Google Cloud Firestore**, served from **Cloud Functions** hosting GraphQL endpoints, combined real-time on-demand access to eliminate overhead maintenance costs.

Private Tutor/Education Consultant   *February 2017-2020*

- Worked with families to develop curated learning plans based on personal assessment of student's individual learning needs, collaborating with teachers and specialists to create growth plans with clear success metrics.

Education Consultant, Max Scholar   *August 2016-2017*

- Developed and implemented personalized learning strategies for students with diverse educational needs, conducting assessments to identify learning gaps and creating targeted intervention plans.

SKILLS

Frontend: JavaScript (ES6+), TypeScript, React, Next.js, HTML5, CSS3/Sass, Tailwind, Redux

Backend: Node.js, Express.js, Python, RESTful APIs, GraphQL, SQL, MongoDB, PostgreSQL

DevOps: AWS (Lambda, EC2, S3), Google Cloud, Docker, Kubernetes, CI/CD (GitHub Actions)

Misc: Git/GitHub, Jest, Playwright, D3.js, Figma

EDUCATION

Florida Atlantic University
Bachelor of General Studies
Neuroscience and Behavior & Minor in Sociology

SPEAKING EVENTS

Web Servers - Remake Labs Speaker Series

INTERESTS

Running, Rowing, Weightlifting, Tennis, Sid Meier's Civ, Overwatch, Lapham's Quarterly, Hedgehog Review, Afterparties: Stories, Fires: Essays, Poems, Stories, Haruaki Murakami, The Strange Order of Things