Morgan Ellery

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Education

University of Washington — Seattle, WA
B.S. in Computer Science — *Sep. 2019 – Jun. 2023*

Experience

Software Engineer — Jul. 2023 – Present
Zendly — *Remote*

- Built a webhook-delivery service in Go handling 3M+ events/day with at-least-once delivery guarantees
- Migrated the billing pipeline from cron-triggered batch jobs to an event-driven queue, cutting invoice latency from hours to minutes
- Introduced contract tests between the API and its three internal consumers, catching breaking changes before deploy

Software Engineering Intern — Jun. 2022 – Sep. 2022
Zendly — *Remote*

- Implemented a rate limiter for the public API using Redis, replacing an in-memory limiter that reset on deploy
- Wrote integration tests covering the authentication flow, raising coverage on that module from 40% to 90%

Undergraduate Teaching Assistant — Sep. 2021 – Jun. 2023
University of Washington, Dept. of Computer Science — *Seattle, WA*

- Held weekly office hours for a 200-student data structures course
- Graded and gave feedback on weekly programming assignments in Java

Projects

Routewise | *Python, FastAPI, PostgreSQL, Docker* — Jan. 2023 – Present

- Built a route-planning API that scores commute options by cost, time and carbon estimate
- Deployed with Docker Compose behind an nginx reverse proxy on a single VPS
- Wrote a CLI client in Python distributed via PyPI, with 300+ downloads

ClassSync | *TypeScript, React, Node.js* — Sep. 2021 – May 2022

- Built a scheduling tool for study groups, used by 150+ students in one academic term
- Implemented calendar-conflict detection using an interval-tree data structure

Technical Skills

Languages: Go, Python, TypeScript, Java, SQL
Frameworks: FastAPI, React, Node.js, JUnit
Developer Tools: Git, Docker, GitHub Actions, PostgreSQL, Redis
Libraries: pandas, NumPy