Drew Halverson

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EXPERIENCE

Staff Software Engineer (L4)

July 2022 - Present

Palo Alto Networks

Santa Clara, CA (Remote)

- Created new reverse-proxy micro-service in Golang in order to improve scalability of existing Kubernetes micro-service by routing stateful API requests based on customer tenant; maintained correct cache mappings for request routing to optimize runtime by avoiding Neo4j database reads when possible
- Resolved customer-facing production bugs shortly after onboarding to new service exposed via gRPC that schedules agent software upgrades using Temporal, given ownership of this service as a result
- Improved scalability of above service to support upgrades for 5x more agents per tenant and reduce read load on MongoDB for the UI
- Implemented project that enables existing customer licensing infrastructure running on AWS Lambda to communicate licensing changes with separate Kubernetes micro-service via API requests; completed in two weeks while learning new code base (customer licensing) and re-learning Python and AWS (Lambda, API Gateway, RDS)

Software Development Intern

June 2021 – August 2021

Amazon

Seattle, WA (Remote)

- Streamlined deployment of datasets used to inform delivery drivers on tasks such as locating a mailroom, unlocking a door with a code, or finding the correct unit of an apartment/condo complex
- Developed code on AWS Lambdas to monitor dataset deployment progress tracked in DynamoDB
- Leveraged AWS SQS to communicate dataset deployment completion events between Lambdas
- Marked the correct version of each dataset as "live" in AWS AppConfig for the delivery driver mobile app to use

Software Engineer Team Lead

October 2020 – April 2021

Trulight Project

Cedarburg, WI (Remote)

- Led a team of interns working on backend algorithm and API development; organized the team's work using Jira, prioritized critical tasks for release of first major version of backend
- Reduced TruLight safety score API runtime by ~25% by using concurrent APIs calls and refactoring existing code
- · Added usage of JWT tokens to incoming API requests from TruLight mobile app for increased security

Software Engineer Intern

March 2020 - October 2020

Trulight Project

Cedarburg, WI (Remote)

Created UML modeling diagrams for the first version of backend TruLight algorithm implemented by the team
Developed an API hosted on GCP with Java Spring framework that retrieved data from sources such as United States Census, weather, and FBI APIs to calculate a TruLight safety score for the user's location

PROJECTS

File Backup Tools | Java, Git

January 2020 - August 2020

- File manager that uses a custom tree data structure traversed smartly by choosing which folder to look in next based on the file name that is being searched
- Support for deleting files in bulk that no longer exist on source drive or have a duplicate backup

Covid-19 Visualizer | Java, JavaFX, Git

April 2020 - May 2020

Displays Covid-19 case data on a graph generated from user selection of country and time range from JavaFX GUI

TECHNICAL SKILLS

Languages: Golang, Java, Python, C/C++, SQL, JavaScript

Cloud Computing: GCP (PubSub, BigQuery, Kubernetes, Dataflow, App Engine, Datastore, Endpoints, Cloud Run, IAM), AWS (Lambda, DynamoDB, RDS, SQS, API Gateway, IAM, AppConfig), MongoDB, Neo4j

Frameworks: Swagger, Gorilla Mux, Go Testing, GoMock, Spring Boot, JUnit, Mockito, Python "unittest"

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Other: Temporal, Docker, JWT Tokens, gRPC, Http, WebSocket, Protobuf, Git, GitLab, GitHub, Jira, Asana,

Postman, Lightstep, VS Code, IntelliJ, Vim, Linux, Grafana (Observability Dashboards, Alerting)

EDUCATION

University of Wisconsin - Madison

September 2019 – May 2022

Bachelor of Science in Computer Science - GPA: 3.67

University of St. Thomas

September 2018 – May 2019