Hayden Wade

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TECHNOLOGIES

DAY-TO-DAY COMFORT

- AWS
- Kafka
- Docker
- Node.js, JavaScript
- Redis
- Auth0
- Postgres, Elasticsearch
- Terraform
- RESTful APIs
- C#, VB .NET
- SQL, NoSQL
- React.js, Redux, TypeScript
- HLS
- Squadcast
- Grafana, Prometheus
- Jest

HAVE EXPERIENCE WITH

- Alexa Skills
- Azure, Heroku
- Bing Maps
- HTML5, CSS3, Bootstrap
- Angular, AngularJS
- Puppeteer, Protractor
- MongoDB
- socket.io

EXPERIENCE

SENIOR SOFTWARE ENGINEER - VIDEO SERVICES PLATFORM TEAM

Alula, St. Paul, Minnesota, October 2020 – Current

Led mixed team of 5 remote contractors and FTEs consisting of software engineers and quality assurance analysts. Transferred ownership of infrastructure and code for the video services platform from contractors to internal team. Optimized video processing which reduced AWS EC2 **compute costs by 80%**. Identified and implemented changes to reduce AWS S3 **storage costs by 35%.** Evaluated multiple incident management software tools. Integrated incident management software into the organizations monitoring and alerting software. Architected, implemented, and load tested new data ingest pipeline for video platform using **Kafka** to increase scalability, visibility, and ensure system is fault tolerant. Designed and implemented provider agnostic platform to increase speed to market and decrease integration time. Worked with multiple camera providers to ensure hardware and firmware meet Alula's specifications. Maintained, monitored, and scaled core infrastructure for organization (MSK Cluster, RDS Postgres instances). Performed database migration in order to consolidate data centers. Implemented **HLS (HTTP Live Streaming)**. Structured the team around scrum/agile fundamentals. Worked with key business stakeholders to build and prioritize backlog. Interviewed, onboarded, and mentored a growing team of software engineers. Primary code utilization included Node.js, Jest, ffmpeg, and Terraform. Amazon Web Services: ECS Fargate, MSK, ECR, EC2 (VPC, ALB, etc), S3, RDS (Postgres), Redis, SQS, and SNS.

FULL STACK SOFTWARE ENGINEER - ALULA CONNECT TEAM

Alula, St. Paul, Minnesota, September 2019 – September 2020

Architected and implemented a new time-series data pipeline for organization using **Amazon MSK** (**Kafka**), wrote Terraform automation scripts to deploy necessary infrastructure for both the Kafka cluster and consumer ECS cluster. Utilized **Terraform** to build new monitoring platform for organization, consisting of **Prometheus** and **Grafana**, hosted and deployed in AWS. Implemented Prometheus service discoverer for ECS Fargate tasks. Implemented prometheus exporter for Burrow to monitor consumer group metrics. Enhanced and maintained multiple responsive web applications for home automation and smart security platform. Designed, implemented, and tested conditional rendering pattern to facilitate higher application maintainability and scalability (**Angular** and **React** compatible). Enhanced and maintained **TypeScript** library to provide reusable code for multiple applications. Led security initiatives by planning, analyzing, and architecting solutions across web and platform teams. Built out initial patterns and code base for consumer web application using **React.js** and **Redux**. Migrated features to new smart security platform to retire old application. Enhanced CI/CD pipeline with automated deployments. Implemented chat bot to facilitate QA processes using the **Hubot** framework. Primary code utilization included React.js, Redux, TypeScript, Angular, JavaScript, Postgres, Puppeteer, Enzyme, Jest, and Terraform. Amazon Web Services: ECS Fargate, MSK, ECR, EC2 (VPC, ALB, etc), S3, EFS, and CodePipeline.

SOFTWARE ENGINEER II - NAVISPHERE VISION TEAM

C.H. Robinson, Eden Prairie, Minnesota, January 2018 – August 2019

Enhanced and maintained eCommerce application that provides customers a view into their global supply chain. Organized and led team of 5 engineers to build custom **Alexa Skill** and presented it to c-level executives, received budget to expand voice app. Worked closely with data scientists to provide in-app predictive analytics, researched 3rd party APIs, and created proof of concepts. Implemented new customers on a strict deadline. Streamlined customer implementations by designing, implementing, and testing new web application. Reduced customer implementation timelines by leveraging software and driving standardization. Built software to consume multiple sources of data from enterprise service bus (**RabbitMQ**, **Kafka**). Worked with infrastructure team to migrate our application to the cloud (**Azure**). Rewrote application from **AngularJS** to **React.js** with **Redux**. Built **npm** package to support authentication and authorization that is used across all micro services. As lead engineer on team I mentored a growing team of engineers. Improved teams interview process for multiple roles (SE, BA, QA, PM) and led technical phone screens and on-site interviews. Primary code utilization included React.js, Redux, AngularJS, Node.js (Hapi.js), Docker, SQL, MongoDB, Elasticsearch, Enzyme, Jest, Nightwatch.js, and C# (ServiceStack).

SOFTWARE ENGINEER I - GLOBAL FORWARDING TEAM

C.H. Robinson, Eden Prairie, Minnesota, May 2016 - December 2017

Worked on a team of 5 to design and implement micro-services to send and receive messages from U.S. Customs (ABI CATAIR). Refactored Pre-Arrival Processing System (PAPS) Angular web application with a responsive, mobile first design to enhance UX across wide range of devices used by truck drivers. Contributed to team of ~20 developers by leading **Angular** training sessions, being DevOps Advocate, and defining code standards for web applications. Built **nuget** package to support Role Based Access Control (RBAC) using **Auth0** and **ServiceStack** request attributes and plugins. Built shared **Angular** component library using **npm**. Leveraged unit tests and automated acceptance(e2e) tests to ensure code quality via CI/CD pipeline. Mentored interns as part of the Intern Program Committee. Primary code utilization included HTML5, Bootstrap, Angular, Protractor.js, Jasmine, C#, ServiceStack, and SQL.

EDUCATION

BACHELOR'S OF SCIENCE, SOFTWARE ENGINEERING
University of Wisconsin - Platteville, September 2012- May 2016
Magna Cum Laude, Deans List