I like to build modern infrastructure which will be helping people for decades. I am a primarily back-end software engineer who is always on the lookout for opportunities to create and use innovative technologies to create scalable and maintainable applications. Lately, I have been working day to day with Java and am also very knowledgeable in NodeJS and React JS.

## Skills

|  |  |
| --- | --- |
| **Backend** | Java 8+ (including Swing, J2EE, Spring-boot, Micronaut and Android SDK), Kotlin, NodeJS (ES8+), Python 3, C# (.Net Core) |
| **Frontend** | Javascript (React, JQuery), HTML, CSS |
| **Operational** | Linux (common unix tools, BASH), Windows Server, Ansible, Terraform, Docker |
| **Databases** | SQL (Oracle, Postgres, MySQL, SqlServer, H2), Elasticsearch, Mongo |
| **Misc Tools** | Git, AWS (SQS, S3, EC2, RDS, DynamoDB, Athena, Lambda, API Gateway), Localstack, Nomad, Consul |
| **Personal** | Hardworking, dedicated, and results driven team player.  Absolutely love analyzing systems to find inefficiencies and faults. |

## Select Work Experience

### Senior Software Engineer at Nike (Mar 2021 - Present)

* Exercised chaos engineering tests in serverless AWS environment
* Administered modern Github enterprise instance
* Created platform for deploying services to China (aws-cn)

### Senior Platform Engineer at Randstad, Nike contract (Aug 2019 - Mar 2021)

##### Onsite at Nike (Aug 2019 - Present)

* Designed and implemented highly available and scalable APIs using both Java and Node.js
* Implemented multiple layers of testing including unit tests, integration tests, and behavioral acceptance tests
* Built blueprints for services based on various AWS lambda implementations (e.g. micronaut)
* Spearheaded safe deployments for lambda via AWS's canaried traffic shifting provided by SAM.
* Identified and eliminated almost $10k of unnecessary monthly operational overhead
* Implemented multi-region active-active HA strategy for critical business services
* Lead initiative to start developing applications using infrastructure as code (CloudFormation)
* Caught several issues in code review and test before they could become production issues
* Responded to production incidents in an on-call capacity

### Software Engineer/Tech Lead at Cox Automotive (May 2015 – Aug 2019)

##### Data Solutions (May 2017 - Aug 2019)

* Acted as technical lead, driving technology and architectural decisions
* Designed standardized vehicle language for use in multiple business units
* Participated in RESTful API design with direct feedback from internal consumers
* Created mono-repo microservices for data ETL using Postgres, Node.js, Docker
* Load test systems guaranteeing continued operation under extreme load (up to 20k RPS)
* Simplified complicated configuration logic expressions by searching for tautologies, and removing unsatisfiable expressions using MinSAT
* Automated functional integration testing using localstack and CircleCI
* Defined standards for documentation and code quality through pair programming and formalized code review processes
* Participated in the design and implementation of infrastructure for managing cloud deployments using technologies such as Consul, Nomad, Terraform and Docker
* Installed monitoring and alerting to get increased visibility into key performance indicators using PagerDuty and DataDog metrics

##### Dealer.com Inventory (May 2015 - June 2017)

* Promoted into technical lead, driving technology and architectural decisions
* Created system to migrate image hosting to AWS cloud services via S3 and EC2
* Member of scrum team which develops and maintains microservice applications which aggregate and serve vehicle data in a scalable way
* Migrated core systems to a more modern tech stack for better maintainability and performance (Spring 3 -> Spring-boot with Spring 4, Java 7 -> Java 8)
* Integrated with automated deployment tools to support continuous deployment and integration
* Installed monitoring and alerting to get increased visibility into key performance indicators using PagerDuty and NewRelic APM
* Created internal applications to ease troubleshooting issues and testing

### Dev/Ops Intern at Capitalsoft, Inc (March 2014 – May 2015)

* Generally participated in front-end and back-end development of J2EE application (Java 6)
* Designed and implemented interfaces for GIS management using jQuery and JSP
* Implemented ANT build process which cut build time by 75%
* Implemented automated regression testing system using Selenium
* Setup and administered servers for SVN, Bugzilla, Oracle Database and Weblogic

## Education

|  |  |
| --- | --- |
| The University of Texas at DallasRichardson, TX |  |

* Graduated with B.S. Computer Science in December 2015
* Interesting Courses Taken: Data Structures, Discrete Math, Algorithm Analysis, Machine learning, Artificial Intelligence, Computer and Network Security

## Select Academic Projects

### Capture The Flag Bot in Java (Artificial Intelligence I Spring 2015)

* Implemented AI agent which discovered the board state 1 move at a time
* Custom A\* algorithm implemented for path finding
* Placed 6th in competition against 44 other AI agents implemented by classmates

***Code on github: github.com/cazlo/ctf***

### 2D Side Scroller Game in Java (Computer Science II Spring 2013)

* Led team: delegated roles to team members, planned and implemented general framework of program, managed time-lines

***Code on github: github.com/cazlo/heli-madness***

***Additional projects available at github.com/cazlo and www.andrewpaettie.com***

###### References and Full Work History Available Upon Request