Andrew Paettie

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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 Dallas

Richardson, 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