Andrew (Drew) Paettie

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Skills

Backend
- **Architecture** - 4 years (microservices, monorepo, RESTful API design, ADRs)
- **Java** - 6 years (JUnit, Spring-boot, Micronaut, Android, Tomcat, Gradle, Maven)
- **Javascript** - 6 years (Node, Typescript, Jest, Cucumber, Yarn)
- **Python** - 2 years (locust.io, scikit-learn, pytest, pypi)
- **C#** - 1 years (.Net), **C/C++** - 1 year

Frontend
- **Javascript, HTML, CSS** - 3 years (React, Redux, Jquery, Jest, Angular)

Data Persistence
- **SQL** - 5 years (Oracle, Postgres, MySQL, SqlServer, H2)
- **NoSQL** - 3 years (DynamoDB, Reddis, Mongodb)
- **Search** - 3 years (Elasticsearch, Lucene)
- **Messaging** - 4 years (SQS, Rabbitmq, Kinesis)

Operational
- **Containers** - 4 years (Docker, docker-compose, Nomad, ECS, Kubernetes)
- **Infrastructure as code** - 3 years (Terraform, Cloudformation, SAM)
- **Security Testing and Hardening** - 4 years
- **Monitoring** - 4 years (Datadog, Sumologic, Newrelic, Cloudwatch, Splunk)
- **CI/CD -** 6 years (Gitflow, Jenkins, CircleCI)
- **0 downtime deployments** - 4 years (Feature flags, Canaried deployments)
- **AWS** - 4 years (S3, EC2, Lambda, Api Gateway, Cloudfront, Route53, RDS)
- **On Premise Datacenter** - 3 years (ansible, puppet, yolo)
- **Linux** - ~20 years (using it, not kernel dev. Ubuntu is current favorite distro)

Personal
- Hardworking, dedicated, and results driven team player.
- Love analyzing, testing, and automating systems that help other people.

Select Work Experience

Site Reliability Engineer at Blue Origin (Oct 2021 - Present)

- Stabilize key developer tooling Gitlab, Artifactory through infrastructure right sizing
- Develop scheduled maintenance process with several key wins, e.g. 90%+ reduction in vulnerability remediation time while maintaining 99.99%+ uptime
- Develop targeted performance improvements for key CI pipelines, saving upwards of $2M/year
- Provide consultation daily to other engineers for engineering areas I specialize in
- ISO-27001/CMMC/FIPS compliance requirements gathering and implementation
- Project management and roadmap development

Senior Software Engineer at Nike (Aug 2019 - Aug 2021)

Global Payment Team - FTE (Mar 2021 - Present)
- Design and implement several large scale, multi-region cloud payment services
- Exercise chaos engineering tests in serverless AWS environment
- Create platform for deploying services to China (aws-cn)
- Security hardening

Global Payment Team Lead [Contract through Randstad] (Mar 2020 - Mar 2021)
- Design and implement highly available and scalable APIs using both Java and Node.js
- Implement layered testing including unit tests, integration tests, and behavioral acceptance tests
- Build architectural blueprints for microservices
- Spearheaded safe deployments for lambda via AWS's canaried traffic shifting provided by SAM
- Provide mentorship for more junior engineers using tools like pair programming

Retail Services Team [Contract through Randstad] (Aug 2019 - Mar 2020)
- Implemented multi-region active-active HA strategy for critical business services
- Identified and eliminated almost $10k of unnecessary monthly operational overhead

Software Engineer -> Tech Lead at Cox Automotive (May 2015 – Aug 2019)

Data Solutions (May 2017 - Aug 2019)
- 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)
- Automated functional integration testing using localstack and CircleCI
- Defined and monitored key performance indicators using PagerDuty and DataDog metrics

Dealer.com Inventory (May 2015 - June 2017)
- Promoted into technical lead, driving technology and architectural decisions
- Designed system to migrate image hosting to AWS cloud services via S3 and EC2
- 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)
- Created internal full stack applications to ease troubleshooting issues and testing
- Collapsed 13 related services into a single deployable artifact -> less process overhead for dev

Education

The University of Texas at Dallas
- Graduated with B.S. Computer Science in December 2015
- Areas of study include: Data Structures, Discrete Math, Algorithm Analysis, ML, AI, Network Security