

Matthew Cavener

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Software Developer with a particular interest in making applications users enjoy using and developers enjoy developing. I also make games and tools for games to sharpen my skills and (sometimes) build fun things!

Experience

Software Engineer 2, divvyDOSE/Optum

(Jan 2022 – Present)

- Led design and development of AWS Lambda functions in TypeScript for processing batched SQS messages
- Designed and built .NET Core microservices powering user self-service portal
- Created Terraform modules to manage AWS resources, eliminating manual configurations
- Optimized company boilerplate DynamoDB queries, reducing AWS spend
- Created React components for user self-service portal
- Improved CI/CD pipelines while migrating from CircleCI to GitHub Actions
- Mentored junior developers in best practices and workflow optimization
- Created JUnit and Jest test suites bringing test coverage from 0% to 85% for critical services

Sr. Data Engineer, Nike (via IGNW)

(Jan 2021 – Jan 2022)

- Led design and implementation of ML-based synthetic data generation tool for
- Built Python ETL pipelines that improved data consistency in test pipelines

Software Engineer, Carvana

(July 2019 – Nov 2021)

- Developed new conversational paths in a Python chatbot, reducing customer service call volume
- Implemented A/B testing for chatbot messaging, increasing user engagement
- Led a proof-of-concept graph database implementation of chatbot conversation paths

Software Engineer, Nextiva

(Mar 2018 – July 2019)

- Designed and implemented Python microservices for an embedded chat widget
- Architected, developed, and deployed an image upload feature for chat widget

Software Developer, 7-Eleven Stores

(May 2017 – Jan 2018)

- Automated deployment of discounts/promotions to retail locations
 - Maintained and improved Python-based backend services for POS systems
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Skills

- **Backend:** Python (FastAPI, Flask, Django, Hug, Tornado), Node.js, .NET Core, Java (Spring Boot)
 - **Frontend:** JavaScript/TypeScript, React, Next.js
 - **DevOps & Cloud:** AWS (Lambda, EC2, DynamoDB, S3, API Gateway, SQS, RDS, IAM), Terraform, Docker, Kubernetes, CI/CD (GitHub Actions, CircleCI)
 - **Data & Storage:** SQL, NoSQL (DynamoDB, Neo4j, Redis), Pandas, NumPy, sklearn, TensorFlow
 - **Other:** Unit & Integration Testing (pytest, Jest, JUnit), Git, GitHub, Docker Compose, Bash/Zsh, Linux/UNIX
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Education

B.S. in Physics, Oklahoma State University (2015)