# 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)

- Developed a self-service app enabling users to sign up and track orders without agent assistance
- Led design and development of an event-driven data pipeline with TypeScript-based Lambda functions, SQS, and optimized DynamoDB queries, improving efficiency and reducing costs across multiple apps
- Built CI/CD pipelines in GitHub Actions leveraging Terraform to automate deployments
- Mentored junior developers in workflow optimization, coding best practices, and code review
- Created JUnit and Jest test suites, increasing test coverage from 0% to 85% for critical services

### Sr. Data Engineer, Nike (via IGNW)                    (Jan 2021 – Jan 2022)

- Led design and implementation of an ML-based synthetic data generation tool for robust testing
- Developed ETL pipelines to improve data consistency in test environments

### Software Engineer, Carvana                    (July 2019 – Nov 2021)

- Designed and implemented new chatbot conversational flows, reducing customer service call volume
- Developed A/B testing frameworks for chatbot messaging, increasing user engagement

### Software Engineer, Nextiva                    (Mar 2018 – July 2019)

- Designed and implemented cloud-based microservices for an embedded chat widget
- Developed and deployed an image upload feature to enhance chat functionality

### Software Developer, 7-Eleven Stores                    (May 2017 – Jan 2018)

- Automated deployment of discounts and promotions to retail locations
- Maintained and enhanced locally hosted backend services for POS systems

## 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, Fargate, 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, Docker Compose

## Education

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