

# Zhi Wang

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## EDUCATION

### Georgia Institute of Technology

Atlanta, GA

*Bachelor of Science in Computer Science*

*Dec 2025*

**Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming, Database, Computer Architecture & Networking, Analysis of Algorithms

## TECHNICAL SKILLS

**Languages:** Java, Python, C, JavaScript, TypeScript, SQL

**Frameworks:** React, JUnit, Pandas, Matplotlib, Selenium, Playwright

**Tools:** Git, Postman, AWS EC2, MySQL, Tableau, Power, Agile, Figma, Docker

## EXPERIENCE

### Amazon

May 2025 - Aug 2025

*Software Development Intern*

*Seattle, WA*

- Led migration of content editing platform to AWS Cloud using TypeScript and Java, serving **1.2M** monthly users
- Accelerated platform response time by **57%** by developing a two-stage asynchronous content processing algorithm
- Optimized cross-region service latency by **36%** through automating multi-region cloud infrastructure with failovers
- Launched operational dashboard and alarms with CloudWatch, monitoring service health and performance metrics

### Global Payments

Jun 2024 - Aug 2024

*Software Engineer Intern*

*Atlanta, GA*

- Streamlined customer onboard and service workflows for B2C management platform using React and Spring Boot
- Reduced request wait time by **62%** by optimizing Java backend routes and improving inefficient database queries
- Built reusable components adopted across **3** teams, standardizing user experience and accelerating feature delivery

### Art and AI Innovation Lab

Jan 2024 - May 2025

*Undergraduate Researcher*

*Atlanta, GA*

- Engineered a gesture-controlled audio interface to support live musical performance using Python and MediaPipe
- Minimized service latency from user camera input to backend sound output by integrating WebSocket data streams
- Integrated a gesture recognition pipeline with audio production systems to enable hands-free audio manipulation

## PROJECTS

### Airline Management System | MySQL, SQL

Jan 2025 - May 2025

- Designed an Enhanced Entity-Relationship Diagram modeling complex airline operations and business constraints
- Developed stored procedures and SQL views to manage core airline functions such as flight and pilot scheduling
- Constructed a normalized relational schema with keys, constraints, and cascading rules to maintain accurate data

### SeatWatch | Python, AWS, Selenium, Twilio

Dec 2024 - Jan 2025

- Engineered a Python application for students to monitor university courses for seating and waitlist availability
- Implemented instant text and email alerts for busy students within seconds, utilizing Twilio API and Selenium
- Deployed service via AWS EC2 for 24/7 monitoring, helping stressed students secure graduation-required courses

### Swipe & Savor | MongoDB, Express.js, React.js, Node.js

Apr 2024 - Jun 2024

- Launched a full-stack web app for generating recipes based on available ingredients using Node.js and MongoDB
- Designed and built REST APIs while collaborating with teammates to deliver an intuitive experience with React
- Implemented cuisine filtering feature for users to personalize their recipe generation by integrating an LLM API

### Airbnb Market Analyzer | Python, Pandas Matplotlib, Selenium

Apr 2024 - Jun 2024

- Engineered a client allowing users to track live Airbnb listings for real-time market trend analysis using Python
- Enabled users to determine optimal booking dates and locations by visualizing key market trends with Matplotlib
- Processed raw listing data into structured datasets using Pandas, ensuring clean data for downstream visualization