

# Wilson Wu

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## EDUCATION

**Emory University, College of Arts & Sciences**  
*Bachelor of Science in Computer Science*  
Cumulative GPA: 3.9/4.0

Atlanta, GA  
May 2024

**Relevant Courses:** Object-Oriented Programming, Data Structures & Algorithms, Computer Architecture, Database Systems, Systems Programming, Agile Development, Machine Learning, Artificial Intelligence, Text Processing with Neural Networks

## WORK EXPERIENCE

### Capital One

Plano, TX

*Senior Associate Software Engineer (Full Stack)*

Jan. 2026 - Present

- Integrated a Bayesian model into a cloud observability platform to enhance anomaly detection accuracy, reducing false-positive alerts and enabling proactive identification of service failures.
- Worked frequently with Angular, TypeScript, Angular Material, Lambda, ECS, DynamoDB, PostgreSQL, and FastAPI

*Associate Software Engineer (Full Stack)*

Aug. 2024 - Jan. 2026

- Implemented a cloud observability platform to monitor network and gateway traffic, implementing real-time tracking of status codes to detect service degradation.
- Reduced downtimes for high-priority services by enabling engineers to visually isolate network failures, removing the need for manual troubleshooting during critical system outages.
- Worked frequently with Angular, TypeScript, Angular Material, Lambda, ECS, DynamoDB, PostgreSQL, and FastAPI

*Software Engineering Intern (Full Stack)*

Jun. 2023 - Aug. 2023

- Developed an enterprise internal web application to streamline the auto-financing loan dispute process, directly improving operational efficiency for dispute agents.
- Integrated unit tests using Jest, verifying component lifecycles and backend logic to maintain high code quality and system reliability.
- Worked frequently with Angular, JavaScript, Java, Spring Boot, Jest, and PostgreSQL

### Fidelity Investments

Westlake, TX

*Software Engineering Intern (Full Stack)*

Jun. 2022 - Aug. 2022

- Developed responsive UI components for a personal investing platform, enabling real-time visualization of client portfolios based on dynamic filtering criteria.
- Implemented RESTful endpoints using Node.js and MySQL to fetch and process financial datasets, consistently achieving sub-second query latency.
- Worked frequently with React, JavaScript, Jest, Node.js, and MySQL

### Sikka Software

San Jose, CA

*Software Engineering Intern (Full Stack)*

Aug. 2021 - May 2022

- Developed an analytics dashboard providing non-retail healthcare providers with actionable insights through high-performance data processing and responsive design.
- Led a critical UI migration from Chart.js to Highcharts.js and vanilla CSS to SASS, significantly improving data rendering speed and maintainability.
- Worked frequently with React, TypeScript, SASS, C#, ASP.NET Core, and MySQL

## PROJECTS

### Stratify (Kanban Management App)

<https://www.youtube.com/watch?v=oEfJazUEyto>

- Implemented a high-performance, interactive Kanban board with drag-and-drop functionality, optimized state management for task reordering, and multi-parameter search/filtering.
- Integrated multi-provider authentication (Google, GitHub, Twitter) using Firebase
- Built using React, TypeScript, SASS, Node.js, Express, and PostgreSQL

### Together (Local-First Budgeting App)

<https://www.youtube.com/watch?v=h2FI8OoysfM>

- Developed a local-first financial tracking application with a modular dashboard, ensuring high-performance data persistence and offline-capable user experiences.
- Implemented a responsive UI with date-range filtering and persistent user preferences like dark/light mode.
- Built using React, TypeScript, Tailwind CSS, Shadcn UI, Node.js, Express, PostgreSQL, and Docker

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript (ES6+), Python, Java, C#, SQL, NoSQL

**Frontend:** React, Angular, Tailwind CSS, SASS, Angular Material, Shadcn UI, Redux Toolkit, React Query

**Backend & Architecture:** Node.js, Express, FastAPI, PostgreSQL, MySQL, DynamoDB, RESTful APIs, Microservices

**Tools & DevOps:** Docker, CI/CD (GitHub Actions, Jenkins), Agile/Scrum, Git, Jest, Cypress

**Cloud Infrastructure:** AWS (Certified Solutions Architect Associate SAA-C03)—S3, Lambda, ECS, CloudFront, Aurora, RDS