

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

Togethr (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