

April Zhou

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EDUCATION

Columbia University

Master of Science in Computer Science

New York, NY

Expected Dec. 2024

Relevant courses: Cloud Computing, Advanced Software Engineering, Engineering SaaS, Deep Learning, Web Application Design, Database

Columbia University

Bachelor of Science in Operations Research

New York, NY

Graduated 2020

GPA: 3.9 | Dean's List | Tau Beta Phi Honor Society

PROJECTS

AdventureAwaits | *Node.js, MongoDB, Express, Pug*

August 2023

- Developed a dynamic full-stack web application enabling users to browse, book, and provide reviews for tours, while allowing tour agents to post tours
- Leveraged Node.js to serve a robust RESTful API, managed the database with MongoDB, and seamlessly integrated the Pug template for client-side rendering
- Implemented a robust authentication system with JSON Web Tokens (JWT), covering user sign-up, secure logins, password reset functionality, and the use of secure cookies for enhanced user privacy and data protection
- Integrated the Mapbox API to create an immersive and interactive map that dynamically displayed tour locations, enhancing user engagement and overall application usability
- Deployed on Heroku for accessibility and scalability and incorporated Stripe API for secure and streamlined payment

CareGuard | *Spring Boot, Java, MySQL*

August 2023

- Led a team of 4, designed and developed a RESTful API with Spring Boot to enable elder home workers to communicate seamlessly with elders' families and facilitated on-time health tracking and alert
- Implemented a sophisticated user authentication and profile system utilizing Spring Security and OAuth. Ensured that authorized users exclusively accessed and managed sensitive records, including private information updates and daily status postings
- Set up MySQL database, optimizing it for scalability and performance. Implemented distributed and parallel systems to efficiently handle distinct user groups, enhancing data management capabilities.
- Deployed the application on AWS EC2, demonstrating proficiency in cloud deployment,

Today-I-Learned | *JavaScript, React, Supabase*

May 2023

- Designed and developed a full-stack web application that allows users to post and react to posts
- Implemented dynamic post-creation form and categorization system using React, integrated database management with Supabase to handle data storage, retrieval, and deletion

PROFESSIONAL EXPERIENCE

EY-Parthenon

Oct. 2021 – June 2023

Associate Consultant in Software

New York, NY

- Conducted strategy and buy-side due diligence on tech companies, with a focus on SaaS, cybersecurity, and EdTech, completed over 15 projects with completed deal size totaling over \$3bn
- Developed strategic planning and revenue diversification plans for an industry-leading higher-ed software solution provider, designed roadmaps for business line optimization and prioritized initiatives, increased forecasted growth by 15%
- Analyzed market headwinds/tailwinds and competitive landscape through KOL primary research and decision maker surveys for a large cybersecurity company spin-off, identified target for maximizing synergy, resulted in successful acquisition of both companies

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, Ruby, SQL (Postgres), HTML/CSS

Frameworks: Node.js, Spring Boot, React, Flask, FastAPI

Developer Tools: Git, Docker, AWS, Postman, VS Code, PyCharm, IntelliJ