Jason Zhang

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EDUCATION

Carleton University   Ottawa, ON
Bachelor of Engineering in Software Engineering   *Expected May 2025*

- **GPA**: 3.9/4
- **Relevant Coursework**: Data Structures, Object-Oriented Programming, Operating Systems, Databases, Discrete Structures, Software Design, Computer Architecture, Software Requirements

EXPERIENCE

Backend Developer   Sept. 2023 – Dec. 2023
Ciena Corporation   *Ottawa, ON*

- Fixed 20+ bugs using AWS SDK/Java to improve the user interface of the SaaS platform app
- Updated SaaS ingress using AWS services(S3, ECS, RDS) to adhere to OWASP rules and minimize security risks
- Optimized capture update speeds in the SaaS dashboard grid by adding a notification service and lowering the polling task intervals, reducing the loading time from >60s to <30s

Frontend Developer   Jan. 2023 – Aug. 2023
Ciena Corporation   *Ottawa, ON*

- Launched 5 major features as a lead UI developer using Ember, Typescript and HTML/CSS to enhance the interface for the MCP Audit app
- Developed new app components such as tooltips, interactive dialogs, and grids based on customer feedback, while increasing scalalibilty to other MCP apps, and future modifications
- Designed unit and integration tests using Ember and Percy to compare visual snapshots of code changes
- Fixed 20+ critical/gating bugs related to customer concerns of the functionality or performance on the Audit app
- Interacted with developers, QA testers, and customers through scrum meetings, implementation discussions, and code reviews to make important decisions on optimizing the features

Embedded Software Developer   May 2022 – Aug. 2022
Curtiss-Wright Defense Solutions   *Ottawa, ON*

- Upgraded Python test automation scripts to improve functionality and scalability towards 20+ SBCs, resulting in earlier software release dates for customers
- Conducted over 150 software tests in U-BOOT and RHEL to verify speed and performance of new releases
- Used corporate Atlassian tools such as JIRA, Bitbucket, Confluence, and Agile to document workflow of the software development lifecycle of 3 flagship projects

PROJECTS

ImageAI | *MERN, Tailwind CSS, DALL-E, Cloudinary*

- Developed a fullstack image generation app using MongoDB, Express, React, and Node to replicate OpenAI's DALL-E app
- Implemented TailwindCSS to provide a more aesthetic UI in the dashboard
- Used the Cloudinary API to generate images of the user's prompts

Sorting Algorithm Visualizer | *React*

- Published an immersive data sorting web app, helping over 200 students learn algortithms at Carleton University
- Executed Merge sort algorithm in less than 10 seconds provided over 100 data points

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, HTML/CSS, Python, SQL (Postgres), C
Frameworks: React, Ember, Node.js, MongoDB, Express.js, Next.js, Bootstrap, Material-UI,
Platform Tools: Git, Docker, AWS, Kubernetes, Maven, Terraform