

XIAOLONG (SHAWN) ZHU

Computer Science, Year 4

(236) 668-4325 | shawn01zhu@gmail.com | <https://github.com/Shawn-hash>

TECHNICAL SKILLS

JavaScript, TypeScript, MongoDB, SQL, React.js, Java, C++, Python, CSS, HTML

RELATIVE EXPERIENCE

Software Developer (Industry Project)

Jan – Apr 2023

- Sponsored by PwC, developed a proof-of-concept cloud automated blog site from scratch in a team of 9
 - Implemented containerization of a blog project using Docker
 - Implemented REST APIs for handling business-critical database queries
 - Constructed user login authentication system to protect users' data security
 - Set up CI/CD pipeline and implementing automated testing
 - Strengthened service reliability by implementing measures to prevent SQL injection attacks
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TECHNICAL PROJECTS

Inventory Tracker (Academic)

May – Aug 2023

- Developed a full-stack inventory tracking website using React, Redux, Node, Express, and MongoDB, deployed on Render
- Designed an intuitive user interface to add items from a form and clear form inputs
- Integrated MongoDB through Mongoose to store and retrieve item data, with real-time updates on adding or deleting items, and ensured data persistence by fetching all stored items from the database on page load
- Set up a GitHub Actions workflow to run tests on pull requests and merges into the main branch

UBC Courses Insight (Academic)

Jan – Apr 2022

- Constructed a mainly backend searching application using TypeScript, and a frontend web visualization
 - Divided the codes into different classes in order to follow various design patterns, including refactoring, single responsibility, LSP, etc.
 - Used REST protocol to handle the storage of dataset
 - Reduced errors and bugs in the app by writing over 300 lines of unit tests using test-driven development, ensuring 100% code coverage
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WORK EXPERIENCE

Tutor, Look4 Tutor, Vancouver, BC

Dec 2020 – Present

- Tutored several students weekly on computer science courses offered at UBC
- Pair programmed with tutees and offered coding instructions to consolidate their understanding in CS concepts such as data structure and algorithms, design patterns, and functional programming
- Utilized various teaching methods and approaches to cater to individual student needs and learning styles

MOCK Full Stack Developer, MOCK Company, New York, NY

Jan 2022 – Present

- Developed and maintained a web application using React, Node.js, Express, and MongoDB
 - Designed and developed RESTful APIs to handle data retrieval and manipulation
 - Integrated third-party APIs to enhance application functionality
 - Managed application deployment and maintenance on AWS
 - Collaborated with cross-functional teams to deliver high-quality software on time to ensure progress
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EDUCATION

BSc (Major in Computer Science)

Sep 2019 – Present

University of British Columbia, Vancouver, BC

- 2019 – 2020 Faculty of Science Dean's List (Top 10%)