

Evan Zheng

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Skills

Languages: Java, Python, JavaScript, TypeScript, SQL, C#, VBScript, C, HTML, CSS

Technologies: React.js, Node.js, ASP.NET, SQL Server, Maven, Gradle, Android, Git, Firebase, NumPy, Bootstrap

Experience

Ivy Global Education

Toronto, ON

Software Engineering Intern

May 2021 - Present

- Improved performance, mobile responsiveness, and SEO ranking of 120+ ASP.NET/C# pages with 200,000+ total monthly views
- Developed a SQL Server cleanup script that optimized tables with almost 9,000,000 entries, reducing size by 95%
- Designed and built classroom administration and analytics tools that manage 1,000+ students across the US and Canada
- Integrated test-taking platforms with classroom organization services, allowing instructors to administer exams virtually

Loo Labs

Waterloo, ON

Frontend Developer

May 2021 - Present

- Worked with a partner to plan, implement, and test the entire frontend of Waterpark, a Node.js web app that helps Waterloo students discover and review on-campus amenities
- Used React.js and TypeScript to build a responsive UI for browsing amenities, reading comments, and submitting reviews

Projects

Shapevolve

evanzheng.com/Shapevolve

- Published a Python 3 library that recreates artworks with circles using a genetic algorithm
- Used NumPy, OpenCV, and Python multiprocessing libraries to improve efficiency by 2x over other implementations
- Prototyped on Jupyter Notebooks, packaged using PyInstaller, and released on PyPI

Three-Body Simulation

evanzheng.com/threebodysimulation

- Developed a JavaFX desktop app to computationally simulate the three-body problem in orbital mechanics
- Optimized app performance and fixed several concurrency issues to ensure the simulation was responsive in real-time
- Packaged into a native Windows app using GraalVM and a cross-platform JAR file using Apache Shade and Launch4J
- Used Maven build tools and Apache Commons Math and CSV libraries, as well as Bootstrap CSS styling

BiblioBarcode

evanzheng.com/BiblioBarcode

- Built an Android app that scans photos of book barcodes to create a bibliography stored on a SQLite database
- Written using Java and SQL on Android Studio, with Gradle build tools
- Utilized the Google Books API and the Google Mobile Vision Barcode API, among others

Awards

Top 100, Canadian Mathematical Olympiad

March 2021

Distinction, Top 10%, Canadian Computing Competition (Senior Division)

February 2021

Gold Division, USA Computing Olympiad

March 2020

Education

University of Waterloo

Waterloo, ON

Bachelor of Computer Science (Co-op)

September 2021 - Present