

Jan Garong

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Portfolio: <https://jangerong.github.io/>

GitHub: <https://github.com/jangerong>

SKILLS

- **Concepts:** Data Structures, Algorithms, Software Design, Design Patterns, SOLID, Agile, Web Development, CI/CD, Unit Testing, End to End Testing, Version Control, UI/UX Design.
- **Languages:** JavaScript, TypeScript, C#, Java, Python, Solidity, HTML, CSS, SQL.
- **Technologies:** Amazon Web Services (AWS), Lambda Functions, DynamoDB, Google Cloud Platform (GCP), Firebase, Node.js, React.js, Angular.js, Nest.js, Next.js, Unity, Jest, JUnit, SQLite, Docker, git, Flask, GitHub CI/CD.

EDUCATION

• University of Toronto

Toronto, ON

Honours Bachelor of Science

September 2019 – November 2023

- Majored in the Computer Science Specialist - Software Engineering stream.
- Received a \$2000 entrance scholarship and was part of the Dean's List.
- Learned algorithms and data structures, as well as basic software engineering and security.

WORK EXPERIENCE

• Blackberry

Mississauga, ON

Software Developer Student

September 2023 – December 2023

- Worked on CylanceGUARD, which is an AI-driven Managed Detection and Response (MDR) solution used to detect exploits on the client's devices.
- Implemented new integrations in the data pipeline with AWS Lambda functions and the AWS Simple Queue Service.
- Created new endpoints for the Java Spring Boot microservices, which adheres to the MVC architecture.
- Stored critical alerts with PostgreSQL and DynamoDB and wrote automated tests with JUnit and jest.

• CertiK

New York, NY

Software Engineering Intern

May 2022 – August 2022

- Worked as a full-stack developer on Skynet, a platform that generates statistics related to the trustworthiness of blockchain projects, and Bug Bounty, a platform that rewards white-hat hackers for finding bugs in smart contracts.
- Wrote React.js code using the Next.js framework for developing server side rendered web UIs, and Vercel for CI/CD.
- Aided with improving user experience via Google Lighthouse to measure UI metrics such as performance and accessibility.
- Built microservices with JavaScript, AWS Serverless and Nomad for ease of scalability.

Security Engineering Intern (Part Time)

October 2021 – December 2021

- Conducted audits of EVM smart contracts, which including ERC20s, ERC721s, decentralized swaps and staking platforms, to identify vulnerabilities and centralization issues.
- Published many critical and major issues related to security and centralization, which prevented loss of funds.

• dApp Technology Inc.

Toronto, ON

Co-op Blockchain Full Stack Developer

May 2021 – December 2021

- Wrote smart contracts to implement common EIPs and helper functions, and used ethers.js to query blockchain nodes.
- Worked on creating user interfaces with UI libraries such as React.js, Next.js and MUI (Material UI).
- Created backend applications using Nest.js and deployed them on the Google Cloud Platform (GCP).

RESEARCH EXPERIENCE

• University of Toronto

Toronto, ON

Research Opportunity Program (Part Time)

May 2022 – August 2022

- Worked on a web application that uses artificial intelligence to group students in collaborative courses.
- Helped in creating REST API endpoints and UI components for a web application using Flask, Firebase, and React.js.
- Integrated an artificial intelligence model written in Python for forming groups based on personal student data.
- Used Docker for easy deployment, independent of the server environment.

PROJECTS

• ZodiacTail

July 2023 – October 2023

- Designed and developed the core gameplay segments, as well as helped with fixing bugs in the UI and game itself.
- Used design patterns and object oriented principles in C# such as inheritance, observer and polymorphism, SOLID to write clean and reusable code.
- Used the Agile process and organized scrum meetings to keep track of progress.

• Using Headlines to Predict Stocks

October 2018 – January 2019

- Analyzed news headlines data to develop a program that predicts stock movements with LightGBM
- Used pandas and matplotlib to visualize the data and scikit-learn to create headline features for deep learning.
- Published a Jupyter Notebook on Kaggle and received 180 forks from other competitors.