Jan Garong

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Portfolio: https://jangarong.github.io/
GitHub: https://github.com/jangarong

PROGRAMMING SKILLS

- **Technologies:** Java, Python, TypeScript, JavaScript, C#, Solidity, MongoDB, PostgreSQL, HTML, CSS, React, Git, Agile, Design Patterns, Data Structures, Docker, Amazon Web Services (AWS), Unity.

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 AWS Lambda to create serverless backends and managed DynamoDB instances that store alert data.
  - Utilized AWS SQS for storing messages between cloud functions in case of shutdowns, overload or maintenance.

- **University of Toronto** — Toronto, ON
  Research Intern — *May 2022 – August 2022*
  - Worked on a web application that uses Artificial Intelligence to group students in collaborative courses.
  - Assisted in creating features for a web application using Flask, Firebase, and React.js.
  - Integrated an Artificial Intelligence module built in Python for forming groups based on personal student data.
  - Used Docker for easy deployment, independent of environment.

- **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 decentralized applications, and Bug Bounty, a platform that rewards white-hat hackers for finding bugs in decentralized applications.
  - Utilized the Next.js framework and Vercel for developing and deploying the frontend/UI and API endpoints.
  - Built microservices with JavaScript, Serverless, and Nomad for scalability.

- **dApp Technology Inc.** — Toronto, ON
  Co-op Blockchain Full Stack Developer — *May 2021 – December 2021*
  - Wrote smart contracts, which included ERC20s and Decentralized Autonomous Organizations in Solidity.
  - Worked on creating user interfaces with UI libraries such as React.js, Next.js and Material-UI.
  - Created backend applications using Nest.js and deployed them on the Google Cloud Platform.

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.
  - Studied data structures and algorithms, as well as formal verification of algorithms.

PROJECTS

- **ZodiacTail** — *July 2023 – September 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, factory, polymorphism, SOLID and MVC to write clean and reusable code.
  - Used the Agile process and organized scrum meetings to keep track of progress.

- **SolidGuard** — *December 2021 – July 2022*
  - Developed a blockchain security platform used to store and notify dApp owners of recent smart contract exploits.
  - Used databases such as PostgreSQL, backend with Nest.js and Swagger, and Solidity smart contracts.
  - Assisted teammates in creating backend API endpoints and used GitHub CI/CD for automating test processes.

- **Using Headlines to Predict Stocks** — *October 2018 – January 2019*
  - Analyzed news headlines data to develop a program that predicts stock movements.
  - 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.