

Vincent Phung . Jarvis Consulting

I'm currently a junior software engineer at Jarvis Consulting Group. I recently graduated with a Bachelor's degree in Computer Engineering, specializing in Software Engineering, from Toronto Metropolitan University in June 2023. I have taken courses including Object Oriented Programming, Database design, Algorithms and Data Structures, Operating Systems, and Software Design and Architecture. I have previous experience working as a software developer intern with the Ontario Ministry of Health and Long-term Care, where I worked on the COVID case and contact management system using Apex, SOQL, Visual Force, and JavaScript (Equivalent to Java, MySQL, and ReactJS). What excites me about this field is the opportunity to transform innovative ideas into tangible, impactful solutions. I find satisfaction in continuous learning, embracing new technologies, and translating them into real-world applications. My main interests in the field of technology are fintech, blockchain technology, and game development. In my spare time, one of the things I enjoy doing is turning some of my ideas into fun projects that include full-stack web applications and bots. Some of these projects include a discord bot that manages the creation, organization, and brackets for Pokémon showdown tournaments among my friends. There's also a full-stack web application calisthenics progress tracker, that allows users to track their progress and make sure they're learning the skills in the correct order, which I'm currently working on.

Skills

Proficient: Javascript, Python, Java, Linux/Bash, HTML5/CSS3, Agile/Scrum, Git

Competent: ReactJS, Typescript, MongoDB/NoSQL, Node.js, Express.js, Tailwind, RDBMS/MySQL/Postgres/SQL, RESTful APIs, Docker, Junit, Salesforce

Familiar: C, VHDL, Oracle, MATLAB, RabbitMQ, Postman

Jarvis Projects

Project source code: <https://github.com/VincentP05>

Linux Cluster Monitor [GitHub]: Implemented a Linux cluster monitoring agent that allows users to monitor nodes/machines and get the host machine's hardware specification and current memory usage data through bash scripts. A job scheduler, Crontab was also used to get the host's usage data in regular minute intervals. The information is persisted in a Postgres database that's run on a Docker container.

Highlighted Projects

Disaster Response System: Developed the frontend for this application using ReactJS which includes a dynamic map. This application is a distributed system that communicates with multiple services using RabbitMQ to determine priority and optimal routes for emergency vehicles in the case of disaster on a user-generated map. The server's endpoints were created with FastAPI and Python. Both the server and client applications were run on Docker containers and hosted on Microsoft Azure.

Online Beverage Catalogue: Created a full-stack web application that allows users to log in and view a catalog of different beverages and assign them ratings using Java and Apache Tomcat. The beverages info and user reviews/ratings were stored in a MySQL database. The application was built with the MVC design pattern in mind, to separate the main components of the application.

Chatter: Developed the UI components for the application using ReactJS and Javascript. The application is real-time messaging web application using sockets (Socket.io) and ML libraries, which allows for the application to pick certain phrases to create events in google calendar such as a doctor's appointment. The backend was created using Java and Spring Boot and Firebase was used for hosting.

Pokedex [GitHub]: Built a web application that allows the user to search up information of various Pokemon using NodeJS, Express.js, MongoDB, and EJS. I implemented Express to handle the routing for all the RESTful endpoints for all the pokemon. I also utilized the web speech API to have speech recognition and speech synthesis on the application.

Mine Diffuser: Created scripts that mimic a rover defusing mines in a 2D map. Built the server service API using FastAPI to handle various calls from various clients. Utilized RabbitMQ as the messaging broker to put the requests from clients into a queue. The client and server were both put into docker containers and hosted on Microsoft Azure.

Autonomous Ping Pong Collector: Implemented an object detection script for the autonomous ping pong collector rover and also created data sets to train the object detection model. The rover uses a jetson nano, arduino uno, and

pre-existing object detection/avoidance models.

Professional Experiences

Junior Software Developer, Jarvis (2023-present): Developed applications using technologies including Bash, Git, Postgres, Docker, Java, Springboot, Python, Javascript, Typescript, Hadoop, and Spark using Agile methodology. Applications include a linux cluster monitoring agent, stock quote application, RESTful API for trading platform, and trading platform application

Software Developer Intern, Ontario Ministry of Health and Longterm Care (2021-2022): Worked in the public health I&IT solutions branch. Worked in the Salesforce developer environment completing user stories for the critical case and contact management application, which was used to track and log cases of COVID outbreaks and cases in Ontario. Used different technologies including Apex, SOQL, and Visual Force (equivalent to Java, MySQL, and ReactJs). Introduced to agile development and version control in a large team setting using git. Coordinated with the QA team to identify bugs and defects to report to the development team. Learned about data remediation, and applied it to multiple SOQL databases, resulting in more accurate and higher quality data.

Education

Toronto Metropolitan University (2018-2023), Bachelor of Engineering, Computer Engineering

Miscellaneous

- Fishing, I've been fishing for quite years now. My favourite fishes to catch are bass and trout. I've mainly only done fresh water fishing, but I want to try fishing in the ocean at least once.
- Calisthenics, I recently transitioned from weight lifting to calisthenics, and I really enjoy learning more skills. I'm currently trying to learn how to do the back lever and handstand push up.
- Basketball, I don't play as much basketball as I use to, so I've been mainly just watching basketball. My favourite team currently is OKC, and my favourite player in the league is Kyrie Irving.
- TFT and trading card games are some of my other hobbies, I enjoy playing auto chess battlers like Team Fight Tactics. I also like playing card games like Yugi-Oh and Pokemon.