

ABISHEK NAATHAN

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Skills

Programming Languages: Python - Java - JavaScript - HTML/CSS - C - C++ - Bash/Shell - MATLAB

Frameworks, Libraries & Databases: React/React Native - Firebase - Express - Node - Tailwind - MongoDB

Tools: VScode - Git/GitHub - Postman - Vite - Figma - IntelliJ - Anaconda - Kubernetes - Docker - Maven

Professional Experience

A Round Entertainment - *Senior Software Developer*; Jersey City, New Jersey *April 2024 - Present*

- Developed web/mobile applications 'JOOPi' and 'Housweet' using **React, React Native, Node, Express, and Firebase**.
- Designed applications with best practices, including **Redux** for state management, **RESTful APIs**, **Figma** for wireframing, **database schemas**, and secure **environment variables** for sensitive information.
- Led a team of four developers, conducted regular **code quality testing**, and answered questions about routing, backend functionality, reusable components, etc., during weekly progress meetings.

Fellowship.AI - *Apprentice*; Toronto, Ontario *June 2024 - July 2024*

- Developed an **AI visual web agent** using **OpenAI's LLM API**, autonomously purchasing a product from Amazon from a single prompt.
- Utilized **Llava** for image recognition, a trained **Yolov8** model to generate bounding boxes on clickable items, **Langchain** to implement custom tools, and **openInterpreter**, achieving a 97% success rate.

Home Depot - *Lumber/Hardware Sales Associate*; Brampton, Ontario *May 2023 - Present*

- Coordinated with a team of associates and supervisors to generate approximately \$80,000 in weekly revenue from the lumber and hardware departments.
- Handled shipments, inventory, and orders using store systems, resulting in an average 98% customer satisfaction rating on monthly VOC (Voice of Customer) surveys.

Projects

Maze Solver | Java, Graph theory, OO principles, Apache Maven, Git + Kanban, Unit Testing

- Developed three different types of **maze-solving algorithms**: right-hand, Tremaux, and breadth-first search using interfacing, **SOLID** and **GRASP** principles, **GOF** patterns, and **object-oriented programming**.
- Completed **unit testing** using **JUnit** and improved **code quality** using technologies like **SonarQube** throughout the build process.

Spotify Mood Tracker | Python, Spotify API, OAuth, Flask, File I/O, JSON, Matplotlib

- Implemented **Spotify's web API** to fetch personal listening data while managing **OAuth** access (using a basic **Flask** webpage) to Spotify's service.
- Used the **matplotlib** Python library to create a meaningful display of data to track mood trends throughout the week based on listening history.

Education and Awards

McMaster University, Bachelor of Software Engineering (Co-op) - Hamilton, ON *Expected: April 2027*

- **Relevant Courseware:** DSA, Unix, OOP in java, Software Design (Agile/Scrum/Kanban), Discrete Math
- **Awards/Honors:** Scholarship of excellence (Awarded to individuals with an entrance average of 95% and above), free choice qualification (ability to choose any stream second year; only the top 10% of applicants for the engineering faculty qualify), TC Energy STEM Scholarship (\$5000)
- **Involvements:** McMaster SumoBots Technical Programming Lead, McMaster Solar Car Executive