ATHI RAJKUMAR

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EDUCATION

University of Waterloo *Bachelor of Applied Science in Computer Engineering*   Sep 2019 – April 2024

Relevant Courses: Algorithms & Data Structures, Databases, Software Architecture, Algorithm Design & Analysis, Programming for Performance, Computer Networks

SKILLS

Programming Languages: JavaScript , Python , C++ , C , Java , TypeScript , Bash , Kotlin, Rust

Frameworks/Libraries: React , Node , Bootstrap , Material-UI , Firebase , Pandas , Next

Development Tools: Git , JIRA , Docker , Snowflake , Sumo Logic , Heroku , Linux , DynamoDB , MySQL, AWS, Figma

EXPERIENCE

Hitachi Rail - *Designs, manufactures, and provides services for railway systems worldwide*   Nov 2024 – Present
Software Engineer   *Toronto, ON*
- Designing and implementing a new system in Django to manage and generate railway project configurations, saving hundreds of engineering hours annually while ensuring high reliability and up-time to support global railway operations

OpenText - *Information management solutions for Fortune 500 companies*   Jan 2023 – Apr 2023
Full Stack Developer Intern   *Richmond Hill, ON*
- Engineered a scalable permission management platform using React/Redux, supporting 1000+ system administrators
- Developed and integrated real-time user dashboards with PostgreSQL-backed streaming data to track task completion and improve operational insights.
- Integrated Formik with Yup for real-time data validation and dynamic error messaging, improving form integrity and user experience with context-sensitive feedback.

Uplift Inc - *Fintech startup offering "buy now pay later" services*   May 2022 – Aug 2022
Full Stack Developer Intern   *Toronto, ON*
- Customized prequalification algorithm to improve accuracy of loan calculation by **7%** for **5000+** daily customers
- Refactored and extended model features, contributing to a **5%** reduction in customer delinquency rates
- Architected an automated Postman integration test suite with 600+ JavaScript test scripts, deployed via AWS Lambda to ensure quality in merged pull requests.

Empire Life Insurance - *Fintech company with verticals in life insurance & investments*   Sept 2021 – Dec 2021
Full Stack Developer Intern   *Toronto, ON*
- Developed an account management portal using React and Express, enabling users to centrally manage security settings and updates, resulting in **95%** time savings across common administrative workflows
- Productionalized an automated pipeline using Github Actions and Auth0's Deploy CLI, streamlining configuration change workflows, saving the DevOps team over **1 hour** of manual work daily
- Led initiative to restructure core application to ensure compliance with Ontario's AODA standards, enhancing accessibility for users

Security Compass - *Cybersecurity company specializing in threat modeling & compliance*   Jan 2021 – Apr 2021
Software Engineer Intern   *Toronto, ON*
- Integrated **3** software composition analysis tools into the company's Django based web application, reducing client's vulnerability alerts by **75%** and saving developers' **20+ hours/month**
- Co-architected a natural language processing (NLP) tool using sci-kit learn during a Hackathon to determine effective candidate interview answers, achieving **82%** accuracy on **100** answers
- Incorporated end-to-end automated test coverage for **4** security analysis plugins using Typescript and Cypress

PROJECTS

FantaSea | *React, Node, Express, Firebase, Python (Beautiful Soup/Pandas), Heroku* ○
- Developed an app offering contextual recommendations and competitive insights to Yahoo Fantasy Basketball players based on automated parsing and analysis of recent NBA box score data

Automated Checkout Bot | *Python, Selenium* ○
- Built scripts for **10+** retail websites that allows a user to checkout highly coveted items within 2 seconds of release