Arun Atchuthananthan

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science | Artificial Intelligence Specialization

September 2021 - May 2026 (Expected)

- 95.05% Cumulative GPA Academic Distinction
- Coursework: Machine Learning in Economics; Object-Oriented Software Development; Data Structures & Algorithms

TECHNICAL SKILLS

Languages: Python, Java, Kotlin, C, C++, Javascript, Typescript, HTML/CSS, C#, PHP, Swift, Scala, Git, Bash, SQL, R Tools: React, Angular, Node, Bootstrap, Flask, PyTorch, Firebase, Postgres, Firebase, Docker, Unity, Jira, Confluence

WORK EXPERIENCE

Android Developer

Toronto, ON

Innovapost

September - December 2023

- Implemented new QR code accessibility features, released for Canada Post Android app with over 1 million downloads
- Analyzed and assisted Kotlin code migration to use KSP processing tool and reduced development build times by 50%
- Developed analysis tool using **Kotlin** and **Adobe** to provide email summaries of development changes to management
- Adapted mobile arrangement and page navigation bar, leading to noted improved user experience ratings and reviews
- Spearheaded initiatives in **Agile** workflow to refine code standards and resource usage across application code repository

Software Developer Remote

Infor

January - April 2023

- Created a new Kotlin logging system to monitor and interpret service data in the Workforce Management application
- Spearheaded efforts to refactor past data logging features and upgrade Java services, reducing execution times by 70%
- Developed Spring aspect-oriented blacklist privacy system to filter logged services and exclude sensitive data
- Constructed JUnit tests to validate proof-of-concept functionality based on data extracted from PostgreSQL databases

Software Quality Assurance Engineer

AlertDriving

Toronto, ON

May - August 2022

- Collaborated with both Development & QA teams to enable TDD for new Javascript features in user-facing web app
- Validated backend optimizations to improve processing speeds by 30% for batch updates of 10000+ concurrent users
- Utilized SQL databases and PHP to efficiently generate, validate, and deliver over 30000 client reminder emails
- Analyzed GitFlow and Agile SDLCs in 20 page report detailing the company's development maintainability and efficacy

PROJECT EXPERIENCE

Rate-It | Sentiment Analysis Interface | Python, Flask, Javascript, HTML/CSS

January 2024

- Programmed Python and Flask backend to categorize text sentiment through a Javascript web app hosted on Streamlit
- Integrated Python libraries to analyze emotions and score further parameters including message polarity and subjectivity
- Leveraged file text processing to add input choices, such as text and csv files, with ongoing testing for social media links

Lyrify | Spotify Web App | Javascript, React, HTML/CSS

August 2023

- Developed music lyric generation and search on Spotify API playback with Javascript and React before adopted natively
- Implemented user-friendly authentication to connect to existing client social accounts and allow customization of web UI

RAIINet+ | Multiplayer Strategy Game | C++

December 2022

- Built and documented C++ game with visual and text displays for live, interactive single-screen multiplayer gameplay
- Implemented object-oriented design to facilitate mechanical modifications, player customization, and game modes
- Shortened input and render time by over 50% by decoupling through MVC design and optimizing game state updates

BookMark | Socialized Book Catalogue | Firebase, Javascript, HTML/CSS

December 2020

- Designed a social online book catalogue of the school library for students to message about, search for, and rate books
- Utilized Firebase to link user ratings, messages, and preferences with either a custom login or their Google account
- Restructured backend book entries to enable daily book recommendations, flexible book searches, and personalized filters