Anirudh Duggal

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EDUCATION

University of British Columbia — Vancouver, BC, CA

Combined Bachelor of Science in Computer Science and Statistics

Courses Taken : Data Structures and Algorithms, Machine Learning and Data Mining, Computer Vision, Relational Databases, Statistical Inference for Data Science, Probability, Methods for Statistical Learning, Reproducible and Trustworthy Workflows for Data Science.

EXPERIENCE

Jr. Software Developer | *Thingsboard IoT, Zigbee, MQTT, React.js* — Jan. 2024 – Present

OmniConn — *Remote*

- Reduced data duplication, yielding a **90% reduction in database write transactions**, by improving code efficiency
- Increased **cost savings by 15%** and **enhanced efficiency by over 45%** of building management systems by implementing optimized strategies concluded through empirical studies
- Refactored company legacy code, **reducing technical debt by 20%**, increasing code maintainability and improving server and system performance
- Configured Linux gateways to host localized IoT servers,ensuring complete mesh connectivity

Computer Science Tutor — Sep. 2023 – Present

Sealy Tutoring — *Vancouver, BC*

- Designed tailored study plans to ensure a comprehensive understanding of the foundations of Computer Science, resulting in **students scoring 85+%.**
- Engaged with university students and guided them through the fundamentals of programming

Android Developer Co-op | *React Native* — Sep. 2022 – Dec. 2022

Seleste — *Vancouver, BC*

- Developed a user profile page and a settings page to increase app functionality by **25%** by developing in React Native for AndroidOS
- Implemented the saving of user profile changes to the database by writing the functions that made the API calls and integrating the front and back-end services
- Collaborated with a team of 3 developers to avoid pipeline conflicts by developing components in a timely and orderly fashion

Software Developer Co-op | *HTML, CSS, Next.js* — Jan. 2022 – April 2022

Nautical Crime Investigation Services — *Vancouver, BC*

- Designed and developed a self-hosted landing page in a custom tech stack to display nautical crime information
- **Led the A/B testing** and continuous development for the novel website design and custom tech stack
- Conducted research on various ML models and their applications to nautical crime under separate crime baskets

Software Developer Co-op | *React.js, Node.js, CSS* — Jan. 2021 – Dec. 2021

Hackspace for Innovation And Visualization in Education — *Vancouver, BC*

- Increased online traffic by **over 40%** by developing a new website that centralized relevant information and links for university students and faculty
- Increased backend operation speeds by **15%** by implementing search and delete functionalities for a seamless user experience with Node.js and MongoDB
- Increased deployment speeds by initiating CI/CD workflows on Azure cloud for WebGL-related projects and student portal

PROJECTS

AirBNB Clone App | *React.js, MongoDB, Prisma*

- Developed a full stack application that emulates the complete functionality of AirBNB with ReactJS, MongoDB, Prisma, and NextAuth

Open Source Contributions

- Contributed to open-source work by solving existing issues and raising bugs for independent repo owners in JavaScript, HTML, CSS, and Python

Lifter | *React Native, SQLite, Expo*

- Developed an Android application in React Native that displays the user's progression over time by recalling from a SQLite backend