Sultan Singh Atwal

FULL STACK SOFTWARE DEVELOPER

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LinkedIn
GitHub
Stack Overflow

Profile

A meticulous and curious software developer with more than 6 years of programming experience, built by collaborating on real-world, academic and personal projects. Continually growing my skills through self-education and practical based activities.

Technical Skills

- Python
- JavaScript
- PHP
- React Native
- REST APIs

- Java
- React
- MERN Stack
- Bash
- GraphQL

Work Experience

Langara College
Mobile Application Developer

Vancouver, BC
Aug 2021 - Dec 2021

Worked as a Mobile Application Developer for Langara Film Arts Department. Built an app allowing the functionality of a film slate on iOS and Android phones and tablets.

- Developed frontend according to design assets provided, resulting in layouts and styles in line with the client's requirements.
- Implemented animations, transitions and sound effects to represent actual functions and utilities of film slates on a movie or show set.
- Researched history, usage, variations and necessities of movie slates in order to prioritize and incorporate the most essential features.
- Followed agile principles of project management, ensuring a smooth workflow and efficient collaboration.
- <u>Technologies used</u>: React Native, Expo, Android Studio, Git, GitHub, Slack

Projects

BreakFirst
Lead Developer

Vancouver, BC
(Sep 2021 - Dec 2021)

A mobile application supported on iOS and Android platforms that reminds users to take regular breaks from work in order to mitigate risks of a sedentary lifestyle. It engages the user through physical exercise cues, using their mobile devices. Visit the promotional website at https://www.breakfirst.ca/

- Directed the development, while focusing on the full stack, resulting in timely delivery of the final product.
- Conducted effective research on device accelerometer and gyroscope usage to track exercises, resulting in successful implementation of motion tracking features.
- Implemented information architecture and navigation based on wireframes provided, ensuring a seamless user flow and a consistent user experience.
- Hosted backend on an AWS EC2 instance (Linux), allowing for safe and efficient communication between the frontend, backend and the database.
- Set up authentication using JSON Web Tokens, ensuring secure sessions.
- <u>Technologies used</u>: MongoDB, Express JS, React Native, Expo, Node JS, AWS EC2, Bash, React Navigation, Native Base, Git, GitHub, Slack

A responsive, web based and data driven platform that helps Electric Vehicle enthusiasts and potential owners by providing information, statistics, news, comparisons, recommendations and maps. Visit the site at https://www.fuelture.ca/

- Led the development while primarily focusing on the frontend, meeting all deadlines and adding all features on the initial scope.
- Reached out to Evox Images and negotiated free access to a part of their picture library.
- Visualized data in line with design assets, enhancing interactivity and data driven aspects of the project.
- Aided in the set up of API endpoints and the database, resulting in fast and secure communication with the backend.
- <u>Technologies used</u>: MongoDB, Express JS, React JS, Node JS, D3, React Leaflet, RSS Feeds, Node - Mailer, Git, GitHub, Slack, Trello

High5!   Vancouver, BC
Lead Developer   (Jan 2021 - Apr 2021)

A progressive web application (PWA) that connects people in the same area with similar interests and hobbies, in order to swap experiences and socialize.

- Responsible for the development of a PWA and promotional website using WordPress, resulting in timely delivery of the finished products.
- Implemented authentication, chat, filter, and camera features to provide a seamless user experience, based on analyzed user research.
- Followed agile principles of project management, resulting in a smooth workflow and efficient collaboration between the team members.
- Improved version control with continuous integration using Git and GitHub
- <u>Technologies used</u>: HTML, CSS, JavaScript, WordPress, PWA concepts, Firebase, Web APIs, Git, GitHub, Slack, Trello

Education

Langara College
Web & Mobile Apps Design & Dev.

Vancouver, BC
(Sep 2020 - Dec 2021)

- Post Degree Diploma in Development

DAV College
Computer Science Program

Chandigarh, India
(July 2016 - June 2019)

- Bachelor of Science

Volunteer Experience

EasyPaper.in   Chandigarh, India
Contributor   (Nov 2019 - Jan 2020)

EasyPaper provides mock question papers and answer keys for a number of colleges.

- Volunteered to solve 24 mock question papers for undergrad Computer Science courses.
- Improved typing skills, contributed towards the student community and reviewed computer science concepts.

Awards, Certifications & Recognitions

Dean's Honor Roll x 4   Vancouver
Langara College   Sept 2020 - Dec 2021

Received for the first 4 out of 4 terms in Web & Mobile Apps Design & Development program at Langara College.

Deep Learning Specialization   Online
deeplearning.ai / Coursera   Jan 2020

A 5 course specialization with courses on Neural Networks & Deep Learning, Convolutional Neural Networks, Sequence Models, Structuring Machine Learning Projects and Improving Neural Networks using Python.

Data Science Professional Certificate   Online
IBM / Coursera   Nov 2019 - Dec 2019

A 9 course specialization with courses on Data Science Methodology, Python for Data Science and AI, Databases and SQL for Data Science, Data Analysis, Data Visualization, Machine Learning and an Applied Capstone Project using Python.

Mathematics for ML Specialization   Online
Imperial College London / Coursera   Oct - Nov 2019

A 3 course specialization with courses on Linear Algebra, Multivariate Calculus and Principal Component Analysis.