

SHYAM PANCHAL

COMPUTER ENGINEERING

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Summary of Qualifications


Programming Languages: Java, C++, Python, JavaScript, PHP, Solidity (Ethereum Blockchain), HTML, CSS
Frameworks, Libraries, and DBMSs: React.js, jQuery, web3.js, MySQL, SQLite
Development Tools: Git, Bash, Android Studio, Visual Studio, Firebase

- Experience in responsive web development and application development through online courses and projects
- Comprehensive knowledge of hardware and networking through Cisco CCNA Routing and Switching courses
- Understanding of object-oriented design, data structures, and algorithms through various courses

Relevant Experience

Software Developer


 Kitchener, ON


 Jan. 2018 – Apr. 2018

Canadian Tire Innovations

- Constructed a decentralized retail application on the Ethereum blockchain using Solidity and React.js to increase transparency between supply chain distribution agents
- Programmed an Android application using Firebase and RESTful APIs to speed up delivery of merchandise
- Practiced iterative test-driven development by writing unit tests and conducting extensive user testing
- Employed Agile methodologies to make the project workflow more transparent, productive, and flexible

Application Developer

 Edmonton, AB

 Jun. 2017 – Aug. 2017

Little Flowers Daycare & Preschool

- Optimized common business tasks by using Java, SQLite, and the JDBC API to build a desktop application to keep track of students and their critical details

Projects

Lendify (Solidity, JavaScript) – EngHack 2018 Winner:

- Decentralized app on Ethereum blockchain to facilitate lending and borrowing of items or services between people
- Application had Solidity smart contract, Node.js/MongoDB back-end, and Bootstrap front-end layers

SimpleNotes (Android):

- Lightweight note-taking application that saves all notes in Android device's internal storage using an SQLite database

Game AI (Python):

- Implemented by making a tic-tac-toe game where the user can play against another human or an AI opponent
- Designed AI to use predictive algorithms to map out user's next move and react accordingly

Website CMS (PHP, MySQL):


- Content management system for a website that features a login system with one-way encryption and functions to add, update, or delete pages and change navigation hierarchy

Accomplishments

- Winner of EngHack 2018 Hackathon in Waterloo, ON
- Top team in Canada for the CyberPatriot National Youth Cyber Defense Competition 2017
- Silver medal while representing Old Scona School in APEGA Science Olympics competition 2017

Education

University of Waterloo

 Sep. 2017 – Present

- Candidate for Bachelor of Applied Science in Computer Engineering
 - Was awarded University of Waterloo President's Scholarship, Alexander Rutherford Scholarship, and Suncor Energy Scholarship