ZHENPENG WU

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TECHNICAL SKILLS

Proficient in	C, Java, JavaScript, TypeScript, SQL, LaTex, Git, HTML
Familiar with	C++, Python, Erlang, Solidity, CSS, React, Shell, Keras, tmux
Exposed to	Lua, AWS, Google Cloud, Docker, Heroku

WORK EXPERIENCE

Teaching Assistant, Department of Computer Science, UBC   Sept. 2018 – Present
Courses: Software Engineering, Relational Databases

- Supervising students building up full-stack web applications and personal projects as a scrum master
- Teaching students RESTful API design principles and advanced OO design patterns via projects
- Assisting students in developing a database for projects using the principles of relational database design
- Helping students understanding the internals and performance issues of a database management system

PROJECTS

SoliGity: Blockchain Decentralized Appication   Jan. 2019 – May. 2019
Keywords: Solidity, Blockchain, React, Github Integration, Node.js, Full-Stack Development

- Created a novel platform based on a smart contract written in Solidity to help developers to discover projects they interested in, make contributions and get rewarded in Ethereum from the project owner
- Ensured that the sponsor and the developer will have accurate, consistent and transparent information on the transactions between them, and eliminated the need for third-party mediation and avoiding human error

Radio Modulation Classification using Neural Network   Jan. 2019 – May. 2019
Keywords: Keras, Python, Supervised Machine Learning, Convolutional Neural Network

- Implemented neural networks based radio modulation classifier using Keras, specifically ANN and CNN
- Applied the models to RadioML 2016.10A, and achieved an average classification accuracy of close to 80% at varying signal-to-noise ratio conditions ranging from 0dB to 18dB

Delivery System React Web Application   Jan. 2018 – May 2018
Keywords: Node.js, React, PostgreSQL Database, Heroku, Full-Stack Development

- Designed and populated PostgreSQL database and hosted on Heroku
- Implemented a RESTful backend server to embed the database and handle requests sent from the frontend
- Leveraged object-oriented design principles and patterns knowledge to design the application

EDUCATION

University of British Columbia   Sept. 2019 – Present
Master of Engineering, Electrical and Computer Engineering - GPA: 4.33/4.33

University of British Columbia   Sept. 2015 – May 2019
Bachelor of Arts, Major in Computer Science - GPA: 4.10/4.33

HONORS

Master of Engineering International Graduate Entrance Scholarship   2020
Scholarships are offered to outstanding international students entering the Faculty of Applied Science Master of Engineering graduate program at the University of British Columbia