

ZHENPENG WU

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TECHNICAL SKILLS

Proficient in	C, Java, JavaScript, TypeScript, SQL, LaTeX, Git, HTML
Familiar with	C++, Python, Erlang, 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
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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
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Keywords: Solidity, 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
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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
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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
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Master of Engineering, Electrical and Computer Engineering - GPA: 4.33/4.33

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

HONORS

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