James Pan
Software Engineer

CONTACT

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EDUCATION

B. ASc. Engineering
University of British Columbia
Vancouver, BC
MAY 2023

WORK EXPERIENCE

Software Developer

Antario Financial   MAY 2020 – PRESENT

- Worked on the dev team to build a complete, extensive mobile payments app from scratch using Flutter
- Tested and debugged Java API calls linked to existing money rails via Interac, Plaid, and Bambora
- Led the planning and implementation of a new and improved front-end, reducing load times by up to ~30%
- Individually designed, created, and deployed the official company website frequented by clients and investors

Software Engineer

NRC – CNRC   MAY 2021 – DEC 2021

- Worked in the AEP Research Division to improve data transmissions through advanced wireless networks
- Wrote programs to model and simulate all components of various 5G systems under different conditions
- Tested quantum dot semiconductor laser networks in the laboratory to assess their performance
- Researched and selected new hardware components which improved both range and quality of transmissions

PROJECT EXPERIENCE

Avionics Engineer

UBC AeroDesign   SEPT 2018 – MAY 2020

- Worked on the avionics subteam to build an aircraft data acquisition system with bi-directional communication
- Developed the core 'GroundStation' web application which tracks and logs flight data and routing in real-time
- Architected the data collection and TX/RX transmission protocols between sensors, on-board telemetry, and GND
- Tested and refined the drop prediction module to improve the trajectory accuracy of released payloads by ~10%

LANGUAGES

- Java (Spring)
- Python
- JavaScript (Node.js, React)
- C
- HTML & CSS
- Dart (Flutter)
- MATLAB
- SystemVerilog
- ARM Assembly

TECHNICAL SKILLS

- Git
- AWS
- Firebase
- Docker
- Jira
- Postman
- Figma
- Nacos
- Excel
- InVision
- RStudio
- Illustrator
- PhotoShop
- Office
- ModelSim
- SOLIDWORKS
- Quartus