Matthew Tong

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EDUCATION

NORTHEASTERN UNIVERSITY **MAY 2021**

Honors B.S. Computer Engineering & Computer Science, minor in Chinese GPA: 3.7

Leadership: ECE Dept. Co-op Peer Mentor, Dragon Dance Captain, Delta Tau Delta Secretary

SKILLS

Languages: Python | Kotlin | JavaScript | SQL | Java | C++ | Matlab | drRacket

Technologies: Node.js | Express | MongoDB | Git | Android | React.js

PROJECTS

LifeWire Mobile App

Generate Product Development Studio

- Implemented API endpoints using Node.js, Express, and MongoDB to build a React Native application that helps connect those in need with medics in the area

DeltNU Android App

Personal Project

- Utilized MVI design pattern and Rx streams to create a mobile app member portal published on the Google Play Store for members to utilize for organizational efficiency

EXPERIENCE

ANDROID DEVELOPER CO-OP Jan 2020 – Jun 2020

Rightpoint Consulting / Boston, MA

- Worked as a mobile app developer to build a single sign on multi-factor authentication platform for the three major telecommunication carriers
- Implemented new features such as developer mode, account migration, and error management
- Collaborated with an inter-disciplinary team of designers, product managers, and developers using Jira and Git within an Agile framework to create an intuitive user-driven application
- Resolved technical debt by overhauling one of the main user flows to improve UX and proactively fix recurring bugs

SYSTEMS ENGINEER CO-OP Jan 2019 – Aug 2019

Canon Healthcare Optics Research Lab / Cambridge, MA

- Wrote a Matlab script to process k-clock signals and create graphs of Short-Term Fourier Transforms, Fast Fourier Transforms, Duty Cycle Jitter, Band pass Filter Studies, Coherence Length Studies, and Relative Intensity Noise, allowing the company to verify their specifications
- Designed and constructed a Michelson Interferometer test setup to capture wave output at incremented optical path length differences using a motorized variable optical delay line
- Built PC subsystem within the MMOCT device including design, maintenance, and creating SolidWorks drawings