ANDREW XUE

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EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Computer Science - **CAV: 92%**   Sep 2020 - Apr 2025
- Relevant Coursework: Functional Programming, Algorithm Design and Data Abstraction

SKILLS

Programming Languages: Python, Javascript, C++, SQL, Swift, Dart
Frameworks/Libraries: Flask, Node.js, React.js, Socket.io, SQLAlchemy, Flutter
Tools: Git, Google Cloud Platform, Amazon Web Services, Firebase, MongoDB, SQLite, PostgreSQL

PROJECTS

Lipoker   Sep 2020 - Present
- Developed an online poker platform used by **11,000+** weekly players with **React.js**, **Flask**, and **PostgreSQL**
- Integrated built-in video chat (first poker platform to implement this) and multiple game modes
- Deployed unit and end-to-end tests written using **Pytest, Jest,** and **Puppeteer** on TravisCI

Felicity   Aug 2020 - Present
- Created an app with **Flutter** and **Firebase** supported by psychological techniques to improve user productivity
- Organized and facilitated weekly stand-ups, teachings, and project timelines
- Coordinated a team of 12 novice Flutter developers to build an (in progress) mobile app

Peerify – *'Best Overall Project' at Ignition Hacks 2020*   Aug 2020
- Built a web application using **Node.js**, **React.js**, **Socket.io**, and **Python** that gamifies remote study sessions while allowing users to grade each others' work
- Utilized a random forest classifier to identify correlating feedback to recognize a user's strengths and weaknesses
- Operated in a team of 3 and was awarded the first place prize at a hackathon with **400+** participants

Oracle   Jul 2020 - Sep 2020
- Developed music player and playlist builder for MacOS using **SwiftUI** with the ability to recommend songs based on the user's mood
- Utilized **AppleScript** to interact and manipulate local Mac applications

EXPERIENCE

Vice President   Toronto, ON
Earl Haig Programming Club   Sep 2019 - Jun 2020
- Performed lectures on advanced algorithms and data structures relevant to competitive programming in preparation for the CCC, DMPG, and ECOO
- Organized programming contests for club members through the DMOJ and Codeforces platforms and implemented solutions in **Python**, **Java**, and **C++**
- Increased club size by over **100%** through advertisement and the arranging of club events

AWARDS

Faculty of Mathematics Entrance Scholarship   Jun 2020
- $8000 scholarship awarded to 200 students for grades/extracurriculars/contest performance

Canadian Computing Olympiad   May 2020
- Earned bronze medal in exclusive competition between top 25 performers from CCC

Canadian Computing Competition   Feb 2020
- Placed 10th out of 2827 participants in national programming contest

United States of America Computing Olympiad   Jan 2018 - Feb 2020
- Achieved platinum (highest) division amongst top 500 participants internationally