

Halifax, N.S  
Canada

# MIKE HSIN

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## WORK EXPERIENCE

### Software Developer, Intern **Bloomberg London** **Summer 2023**

- Design:** Improved integration effectiveness of original tool by 5x through strategic refinement of software requirements based on client feedback.
- Research & Documentation:** Streamlined development under research constraints, delivered the project one week ahead of schedule; Maintained internal documentation, ensuring 100% project clarity, and aligning with stated goals.
- Testing Development:** Achieved 98% test coverage and 94%-line coverage in unit and integration testing of APR tool.
- Quality Assurance:** Led rigorous quality checks under tight deadlines, contributing to 100% adoption of the APR tool among 27 Bloomberg developers.

### Software Engineer, Student **IFRC** **November 2022 - April 2023**

- Achievement:** Achieved a 33% improvement in tool response time over competitors.
- Team leadership:** Led efficient project tracking in a team of 6 while collaborating remotely with another team of 6 and three diverse clients, enhancing cross-team collaboration and securing tool adoption by IFRC.

### Virtual Work Placement **IBM** **Summer 2020**

- Innovation Challenge:** Collaborated in IBM's remote work process to develop a cross-platform mobile application for flood-related challenges, achieving top 10% in work efficiency within 10+ teams.
- Training:** Enhanced remote work process understanding and team agility, demonstrated through active engagement in daily scrum meetings and delivery of detailed weekly progress reports.

### Software Developer, Intern **Nova Scotia Community College** **Summer 2019**

- Arduino GPS Tracker:** Engineered an Arduino GPS Tracker project, launching a balloon equipped with the GPS tracker; Achieved the project's first retrieval post-release, demonstrating the team's innovation and technical expertise.
- Robot renovation:** Renovated an R2D2's head with a Raspberry Pi for Elevated interaction; Converting a medical robot's remote controller from UDP/IP in TCL to TCP/IP in Python.

## EDUCATION

### London, UK **University College London** **December 2023**

- M.Sc. in Software Systems Engineering. Awarded
- Coursework: Software Architecture; Software Systems Integration; Validation and Verification; Software Engineering Research Method; Front End development; Software Engineering.

### Halifax, N.S, Canada **Dalhousie University** **September 2022**

- B.Sc. in Applied Computer Science. GPA: 3.97
- Coursework: Data Structure and Algorithm; Server-Side Scripting; Software Engineering; Network Computing; Web-Centric Computing; Data Mining and data Warehousing; Human Computer Interaction.

### Halifax, N.S, Canada **Nova Scotia Community College** **June 2020**

- Diploma in IT Data Analytics. Grade: 91%
- Coursework: Database; Programing Languages; Software Engineering; Mobile Development; Web Development; Data Privacy; ETL; Linux Scripting; Client-Side Programming; Data Analytics; Back End Development.

## COMPETITION EXPERIENCE AND AWARDS

- Housing Crisis Hackathon:** Dalhousie University Shiftkey Lab. November 2021. Won the Top Prize.
- IBEC Data Challenge:** University of New Brunswick. November 2019; Final round.
- Oracle Academy:** Certification of Completing Java Foundation. June 2019.
- Free Code Camp:** JavaScript Algorithms & Data Structures; Data Visualization; Responsive Web Design.
- Tri-Council Policy Statement TCPS 2-CORE:** Ethical Conduct for Research Involving Humans Course on Research Ethics.

## SKILLS AND TECHNOLOGIES

- Programming Languages & Frameworks:** Python; Java; JavaScript; PHP; HTML5; CSS3; React; Gatsby; Node.js; JQuery; R
- Database:** SQL; MySQL; Oracle Database; SQL Plus; SQL Developer; NoSQL; PL/SQL; Firebase; Data Modeling
- Software Development Tools:** Git Version Control; GitLab; GitHub; Docker; CI/CD; Unit Testing; Integration Testing
- Additional skills & tools:** Tableau; SAP Cloud Analytics; Linux; Android Development; ERD; REST API; Google Cloud
- Project Management:** Agile; Scrum; TDD; Azure Boards; Jira; Trello; Leadership; Requirement Analysis; Risk Management