

Jonathan Chen



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Experience

Software Engineering Intern

ODAIA

Remote | May-Aug 2021

Driving customer engagement using AI

- Conceptualized, designed, and developed 3 instrumentation reports to assess and validate the predicted scores generated by ODAIA's classification, regression, and scoring algorithms, used by clients to efficiently allocate their resources and boost revenue sales
 - Produced data visualizations within a newly created Python package that illustrate the predicted scores
 - Surfaced **30+** critical bugs and aided in tuning the parameters of the models and algorithm
- Parallelized the data ingestion pipeline to optimize repetitive calculations, resulting in a **90%** decrease in processing time
- Constructed the JSON object used by the front-end APIs to display customer scores and information by sourcing and filtering the necessary data from disparate files

Software Developer Intern

Altairix Inc.

Remote | Sep-Dec 2020

Leading the digital transformation for Arrowsmith Schools

- Created a customizable reporting feature in Java that optimized marketing expenditures by highlighting key demographic points about prospective customers
 - Gathered user requirements by consulting with key stakeholders
 - Designed and presented the report to senior management for approval
- Built 8 new widgets and web screens in Java and CSS to improve the accessibility of the Altairix application by establishing its web version

Security Engineering Intern

League Inc.

Toronto, ON | Jan-Apr 2020

Modernizing the delivery of health benefits

- Developed the authentication and integration flow for third-party applications in Golang to increase the partnered programs available to the League platform
 - Implemented JSON Web Tokens to securely transfer data between applications
 - Produced unit and integration tests to enforce a high code standard
- Owned the launch of new security tools by researching, developing and presenting new applications to 50+ developers to reduce the number of vulnerabilities within League's codebase
 - Configured and managed Google Cloud's DLP tool to scan log files for sensitive PHI and PII information
 - Regularly presented my findings to the Security Team and the entire engineering division

Three additional internships at **BlackBerry**, **Intersec**, and **Public Service Commission of Canada**

Skills

Languages: Java, Python, Golang, SQL, R, HTML, CSS, Bash, C++

Technologies: Git, AWS, GCP, Jenkins, Linux, GWT, Android, React, BLE

Education

Candidate for BAsC, Systems Design Engineering,
2017-2022, **University of Waterloo**, **4.0 GPA**

Term Dean's Honours List

Relevant Courses: Machine Intelligence, Computational Statistics and Data Analysis, Data Structures and Algorithms

Interests

Soccer, hockey, and ultimate frisbee
Chess, trivia, and crosswords