Daniel Peng

4th Year Computer Science

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SKILLS

Languages: Python, JavaScript/Typescript, Java, C++, SQL, Bash, HTML, CSS
Technologies: AWS, React, Node.js, Docker, Elasticsearch, Spring Boot, Terraform, Git

EXPERIENCE

data.world // Incoming Software Engineer Intern   *Sept 2020 - Now*

Tableau // Software Engineer Intern - Search   *Jan 2020 - Apr 2020*

- Architected an **Elasticsearch** query modification library in **Java** for independent versioning and isolation of search relevance functionality, enabling rapid iteration and testing of search models
- Designed frontend telemetry and a relevance rating tool using **React**, **AWS Lambda**, and **DynamoDB** to collect user search data for development of ML models
- Added **AWS SQS** to a **Java Spring** service to allow for data ingestion and indexing from Tableau's public product

Connected // Software Engineer Intern   *May 2019 - Aug 2019*

- Led development of an automated voice testing tool using **Python**, **C++**, and Alexa Voice SDK, improving test consistency and reducing testing time by **95%**
- Created new conversation flows for a top North American music provider's Alexa skill using **Node.js** and **AWS Lambda**
- Collaborated with product/design teams to improve skill interaction model, helping to increase channel-matching success rate by **60%**

TD Bank // Mobile Applications Developer   *May 2018 - Aug 2018*

- Developed workspace booking app in **Android** with **Java**, reducing time needed to do booking tasks by over **90%**
- Used **Firebase** database with LiveData and observers to manage UI state/lifecycles

PROJECTS

UW Blueprint (Building tech for non-profits)   🔗 *GitHub*

- Developed **Ruby on Rails** API for creation of flowcharts using a serializable, tree-based data structure, enabling accessible social service information for local residents
- Built **Android** app with **Kotlin** to digitize grading and ranking for a provincial dance competition, streamlining the judging process for 500+ contestants

Data Runner   🔗 *GitHub*

- Created website for visualizing running data in **React** with **Redux**
- Built API with **Mongo** database using **Node.js** and **Express** to process GPS data with JSON web token authentication

EDUCATION

University of Waterloo   *Sept 2017 - May 2022 (expected)*
Bachelor of Computer Science - 3.85 GPA