

Raymond Dinh

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EXPERIENCE

Swing Education swingeducation.com

SDE2 from
Jan '21 – Present

SDE1 from
Oct '19 – Present

Software Engineer II – Full Stack

Product Overview: A job marketplace for K-12 remote and in-person substitute teachers

- Developed a real-time newsfeed for 3000+ school administrators, outlining notification and response statistics (**ClojureScript/React**)
- Collaborated through multiple versions of teacher credentialing with a PM and designer, increasing conversion (**Clojure, Datomic**)
- Configured infrastructure for an AWS Lambda service to email 100+ teachers their pay every week (Kubernetes-based PaaS)
- Extended and tested the frontend UI component library to improve the scheduling UX in the home-schooling product line (**React**)
- Implemented a cron job to remove personally identifiable information from a production database, giving developers up to date data for development environments (**Datomic**)

Oscar Insurance Sept '18 – Dec '18

Software Engineering Intern – Backend

- Built and unit tested a Confluent consumer listening to provider channels sending medical information, automatically parsing, validating, and acknowledging transactions
- Coordinated the integration of HR systems and insurance enrollment with a backend service built on **Apache Kafka**, including monitoring and health checks in Aurora (**Python**)

Investment Technology Group

Jan '17 – April '17

Data Science Intern – Research

- Analyzed billions of dollars worth of trades, decreased trading costs, enabled benchmarking against competitors, and helped identify clients (**NumPy, Pandas, SQL**)
- Iterated on a **C#/Python** email pipeline, allowing ITG to send clients monthly usage statistics
- Cleaned trading data to help verify Canadian trading research hypotheses in the following publication: goo.gl/bCzS5v

TD Bank

Jan '16 – April '16

Software Engineering Intern – Full Stack

- Reworked formulas in stored procedures for analytics reports embedded in a web client, allowing analysts to assess asset allocation (**SQL, Python, Django**)
- Developed an Excel macro in **VBA** to convert millions of dollars of planned bond trades to Bloomberg Terminal compatible orders

Flipp Corp.

May '15 – Aug. '15

Software Engineering Intern – Front End

- Embedded data validation/sanitation for use by the machine learning team (**Ruby**)
- Optimized **HTML, CSS, Ruby on Rails** content creation platform to a point of data entry, generating flyers for retail clients (PetSmart, Menards, etc.) on a weekly basis

PROJECTS

American Statistical
Association Waterloo
May '17

DataFest – Best Visualization

- Cleaned 1GB of Expedia data to create heatmaps of Expedia's customer demographics, while analyzing/predicting hotel bookings in **Jupyter**
- Programmatically conducted a Boruta feature importance analysis to determine relevant factors in customer bookings (desktop, mobile, individual, or family)

EDUCATION

2014 – 2019

University of Waterloo and Wilfrid Laurier University
Bachelor of Computer Science and Business Administration Double Degree

SKILLS

Python, Javascript, Clojure (ClojureScript), Racket, HTML, CSS, SQL