

Rui (David) Zhang

Full Stack Developer | Ex-National Swimmer

Work

Validus Research

Full Stack Web Developer, Sept-Dec 2017, Toronto, ON

- Re-developed the entire Validus' company-wide Underwriting Portal from AngularJS 1.6 to Angular 5
- Integrated data analytics into the Underwriting Portal by implementing Tableau's Web Interface
- Designed and developed from scratch an enterprise level RESTful API and integrated it to a Controller (MVC) framework called MuleSoft and released it into production
- Created 20+ different endpoint flow processes and linked it to the company-wide Underwriting portal using MuleSoft, AngularJS, Microsoft SQL Server, and XML.
- Constructed a dynamic user-friendly widget that lets underwriters be able to create/update/delete/view announcements from the interface using AngularJS, MuleSoft, and Microsoft SQL Server Database (MVC). (Released into production)
- Added advanced localStorage caching functionalities and thus reduced web service calls by 99%

Sun Life Financial

Web Application Developer, Jan 2017 - April 2017, Waterloo, ON

- Developed proof of concepts (PoC) using Angular2 and ReactJS in an agile scrum process and approved by lead architect for development
- Presented innovative technology: Amazon Alexa, AWS Services, Google Home, and Machine Learning to the executive board for mass funding
- Received an award for demonstrating P4 (Passion, Performance, Partnership, People)
- Performed manual unit and automation testing using Object Repository/Spy

Nightingale Electrical

Electrician, May-August 2016, Vancouver, BC

- Shadowed electricians (Journeyman/Foreman/PM) at various construction sites
- Implemented electrical diagrams (AutoCAD) for installation guidance
- Tenaciously learned the installation of wires, sensors, electrical panels, and other electronics without prior knowledge

About

I have a passion and a strong

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Skills

- Languages: Python (Flask, JupyterNotebook, Seaborn, Pandas, Numpy, matplotlib, etc.), Java, JavaScript, Typescript, PHP, MySQL, HTML&CSS
- Full Stack: Angular5 and AngularJS, MuleSoft, NodeJS, Webpack, Matlab, MongoDB, LoDash, Microsoft SQL, POSTMAN, Git

Extra Courses

- Machine Learning - Stanford University Coursera
- Algorithms and Data Structure Specialization - UC San Diego Coursera
- Python Data Science - Udemy
- VueJS & Vuex - Udemy

Education

- University of Waterloo - B.A.S. Candidate

Hackathons

- HackPrinceton 2017 (Featured)
- Hack Harvard 2016
- Hack The North 2016
- UofT Hacks

Other Interests

- Weight lifting
- LesMills Body COMBAT/PUMP/CXworks
- Recreational boxing
- Ex-competitive Swimming

Projects

Stock Market Analysis

Statistical Approach for Stock Predictions and Daily Risks

- Developed a stock market analytical tool based on university level statistics and probability to calculate daily returns, moving average of stocks, correlation between stocks, value at risk, and stock predictions
- Self-taught and applied stock prediction methods including Bootstrap and Monte Carlo Method to run simulations for accurate predictions
- Technology: Python - Numpy, Pandas, Seaborn, Matplotlib

HackPrinceton 2017 - Scheduler Pro

Amazon Alexa Skill - Voice Activation/Texting/Scheduling

(Featured on Twitter Princeton)

- Developed an Amazon Alexa Skill with text messaging and scheduling capabilities in 36h
- Implemented an algorithm that prioritize daily tasks into an optimal schedule and integrated DynamoDB for further data collection used to remind users of deadlines
- Awarded as an Amazon Sponsor Prize Winner and featured on Princeton's Twitter Page

Grocertrack - Full Stack Web App

Helps food retail companies increase efficiency through data analysis

- Developed a full stack website that helps food retail companies increase efficiency through supplying a secure data storage and manipulation system
- Created an Enhanced ER diagram with dozens of entities and attributes, added data into a MySQL data base, applied queries with relevant business logic, and developed the frontend for a user-friendly visualization experience

HackHarvard 2016 - PacMen

Multiplayer - SDK provides backend with 3-tier Architecture

- Built a cross-platform multiplayer Pac-Men (up to 1 million connections) SDK in 36h
- Self-taught and implemented PhaserJS, HTML5, NodeJS, SocketIO, Firebase

Personal Website

State of the Art Web Technology for performance rendering

- Developed from scratch a single page application using VueJS/Quasar
- Implemented the use of Components, Data-Binding, Directives, Animations/Transitions, and Routing