




Danyal Raza

Full-Stack Software Developer

 danyalraza.com

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SKILLS

Programming Languages: C, C++, JavaScript, Python, Java, Ruby, Golang

Back-End: Node.js, Rails, Django, Flask

Front-End: AngularJS, React, HTML5, CSS

Datastores: MySQL, PostgreSQL, SQL Server, MongoDB, Firebase, Redis

Art & Design: Photoshop, Illustrator

IDES and Tools: Unity, Android

EDUCATION

Bachelor of Software Engineering
Sep 2015 - Current
University of Waterloo, Canada

PROJECTS

Melanoma Classifier
OpenCV, Neural Network, Python

- Used OpenCV to break skin formations down into 3 distinct features of melanoma, which when inputted into a neural network, gave a cross-validation accuracy of 75%+ for classifying melanomas
- Used Flask to create an API endpoint for the web service

ADDITIONAL INFORMATION

Visit <http://danyalraza.com> for more personal projects, source code, and devpost links

EXPERIENCE

Uber Advanced Technologies Group | May 2018 - Aug 2018
Software Engineering Co-op - Pittsburgh, PA, United States

- Sought out requirements from critical players in the autonomous-vehicle map production process then delivered end-to-end systems to meet requirements
- Designed, built, and deployed web service using Golang and MySQL to improve organization of map assets and integrated it with multiple existing services in the map production pipeline
- Used React and Redux to build robust front-end UI which interfaced with multiple microservices throughout the organization and significantly improved map production workflow

A Thinking Ape | Sep 2017 - Dec 2017
Software Engineering Co-op - Vancouver, BC, Canada

- Created ETL pipeline to extract aggregated BigQuery job history meta-data and display it in a robust Tableau visualization, allowing the team to monitor specific data pipelines, isolate problems and reduce costs
- Implemented new features into team's Facebook Marketing API client and wrote Python scripts to extract information through the API and store it in BigQuery
- Developed a Django service that utilized GitPython and Amazon S3 to robustly store versioned directories of binary data for use in machine learning training and inference scripts
- Built end-to-end real-time automatic-translation feature for chat in Android and iOS version of a popular mobile MMO, utilizing Google Cloud's Translation API, Django, and Redis for concurrency and high throughput

Vidyard | Jan 2017 - April 2017
Full-Stack Software Developer Co-op - Waterloo, ON, Canada

- Implemented core features of large-scale video hosting and analytics platform using Ruby on Rails and JavaScript
- Containerized large section of the application using docker
- Increased net promoter score survey response rate by over 300% through the implementation of a new user feedback feature
- Improved DevOps and QA quality-of-life by implementing UI for Sinatra application which managed environment variables for various microservices
- Implemented the rebranded design for Vidyard's own video sharing pages

Veriday | May 2016 - Sep 2016
Front-End Software Developer Co-op - Mississauga, ON, Canada

- Implemented front-end features for a website-building platform used by several large financial institutions in Canada
- Ensured browser cross-compatibility of website features with thorough testing
- Created 20+ templates to be used by the platform's templating system for creation of new websites, by heavily utilizing HTML, SASS, and Javascript