ROHAN RAVAL

(703) 624-6624 rohanraval@virginia.edu

www.rohanraval.com

GitHub: rohanraval

EDUCATION

University of Virginia, B.S. Computer Science and B.A. Physics

Aug 2015 - May 2019

- Computer Science GPA: 3.5/4.0, Honors: Dean's List
- Relevant Coursework: Autonomous Racing, Machine Learning, Algorithms, Comp Architecture, Quantum Computing

EXPERIENCE

UVa Link Lab - Autonomous Vehicles Research

Feb 2018 - present

Working on creating virtual testing and prototyping environments for autonomous vehicles using Unity and C#

theCourseForum – Lead Developer

Feb 2017 – present

- theCourseForum is an online community with 15,000+ users that helps peers share course experiences at UVa
- Optimized the search and autocomplete functionality, resulting in faster lookup of courses
- Creating a course scheduler using Ruby on Rails, allowing all users to create semester class schedules

Commonwealth Computer Research Inc. (CCRi) – Software Engineering Intern

May 2017 – Aug 2017

- Arpeggio: Marketing analytics and data harmonization suite built with Scala and AngularJS
 - o Created data filters allowing clients to customize time-series forecasting to gain greater insights into trends
 - o Implemented backend caching system to save commonly-queried data and speed up processing by up to 2x
 - o Automated ingest of data from provider using Python and Bash scripts, saving 3 hours/week of manual scraping
- SaniTracker: Bacterial growth tracking and visualization platform for UVa Hospital built with Scala and Angular 4
 Created the entire manual data ingest system, allowing nurses and staff to report and track bacterial measurements

UVa Systems and Information Engineering – Health Software Research

Sep 2016 - Apr 2017

- Developed health software that aided in the comparative diagnosis of anxiety disorders and phobias
- Built a web platform to collect spatio-temporal data from study respondents using PHP and JavaScript

PROJECTS

SynopText: An app that expands internet accessibility by allowing users to consume summarized video content over SMS

- Developed at PennApps; I integrated YouTube search and developed scripts to extract text from YouTube videos
- Tech Stack: Node.js, JavaScript; using YouTube, Vonage Nexmo, and Aylien (Natural Language Processing) API's

Carpool: a web application to facilitate ridesharing transactions among drivers and passengers

- Calculates gas and maintenance costs for shared trips using location and vehicle data and allows for one-click payments
- Tech Stack: Python, Django, and JavaScript; using Google Maps and Venmo API's

University Analysis: a data visualization project analyzing factors influencing university performance and rankings

Presented at an entrepreneurship expo to 50+ attendees; built using Python + numpy, pandas, sk-learn, and scipy libraries

ACTIVITIES

Hack UVA - Executive Board

Jan 2017 - present

- Helped plan, organize and execute a 200+ person hackathon in March 2017
- Responsible for growth and scaling; helped reach 800+ expected attendees for 2018 by creating new partnerships
- Established connections with corporate sponsors to raise over \$85,000 in funding, and managed corporate mentorship

Mobile App Development Club (Westfield HS) - President and Co-Founder

Jan 2013 - Jun 2015

• Built Android projects, e.g. Meme Maker, led teams to competitions, and organized school-wide events to promote CS

TECHNICAL SKILLS

Programming Languages and Tools: <u>C++</u>, <u>Python</u>, <u>ROS</u>, Java, Scala, JavaScript & TypeScript, Bash scripting, Git **Web Development Technologies:** Django, Node.js, Angular, RxJS + ngrx, Ruby on Rails, PHP, Docker