ROHAN RAVAL

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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, Quantum Computing

EXPERIENCE

Uber ATG (Advanced Technologies Group) – Software Engineering Intern   May 2018–Aug 2018
- Worked on HD Maps software for autonomous vehicles, primarily using C++
- Responsible for helping integrate contextual map geometry into the pipeline for map consumers
- Developed a spatial caching server to decrease latency and increase coverage for on-vehicle map access
- Created tools for debugging and visualizing access patterns for relevant map data

Commonwealth Computer Research Inc. (CCRi) – Software Engineering Intern   May 2017–Aug 2017
- Implemented a caching system and automated the data ingest pipeline for a marketing analytics platform using Scala, which sped up processing by 2x and saved hours of development time per week
- Created a frontend data collection platform for a hospital's internal data visualization suite using Angular, which allowed nurses and staff to report and track sanitation measurements in real-time

PROJECTS

theCourseForum – Lead Software Developer   Feb 2017 – present
- theCourseForum is an online community for sharing academic experiences, with 15,000 monthly active users
- Led development of the course scheduler feature from beta to launch, and grew it to 11,000 users in first week

SynopText – A service to expand internet accessibility by delivering summarized video content to users over SMS
- Integrated YouTube search and developed scripts to extract and analyze text from videos using NLP
- Built using Node.js and Python; developed at PennApps in Sept 2017

Carpool – A web application to facilitate ridesharing transactions amongst drivers and passengers
- This app computes shared trip costs using location and vehicle data, and enables distributed payment
- Built using Django and Javascript in March 2017

ACTIVITIES

Hackers@UVA – Vice President, Events and Growth   Jan 2017 – present
- Helped plan and execute two intercollegiate hackathons, in March 2017 and March 2018
- Organized several workshops and tech talks, including a Design Workshop in partnership with Google
- Responsible for hackathon growth; helped scale from 200 to 600 participants by creating new partnerships
- Established connections with corporate sponsors to increase funding by over $65,000 this year

Mobile App Development Club (High School) – President and Co-Founder   Jan 2013–Jun 2015
- Built Android projects, led teams to two competitions, and organized events to promote CS

TECHNICAL SKILLS

Programming Languages: C++, Python, Scala, Java, Javascript, Typescript

Frameworks and Tools: ROS, Django, Angular 4, Node.js, Docker, Bash, Git