RACHIT AGARWAL
STUDENT + FULL-STACK DEVELOPER

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EDUCATION

University of Maryland, College Park
B.S. Computer Science 2020
3.87 GPA
Technology Entrepreneurship Minor
Design Honors Program (DCC)
QUEST Honors Program
Maryland Images (Tour Guides)

SKILLS & COURSES

Languages: HTML/CSS/JS, Python, Java, SQL, PHP, JavaScript, C, Assembly (Y86)
Frameworks/Tools: Bootstrap, Flask, Play, React, Selenium, JIRA, Confluence, Git, Sketch, GraphQL
Courses: Algorithms, Applied Statistics, Data Science, Research in Computing Interaction, Discrete Structures, Computer Systems, Data Structures, Multivariable Calculus

EXPERIENCE

University of Maryland
Undergraduate Teaching Assistant
College Park, MD
Fall 2017

Leading recitation sessions for CMSC131 (Introduction to Computer Programming) for ~30 students.

LendUp
Software Engineering Intern
San Francisco, CA
Summer 2017

- Financial technology startup with a socially impactful mission: Provide anyone with a path to better financial health
- Managed both product and engineering aspects of transaction synthesis project for credit card
- Wrote project briefs, architecture diagrams, feature tickets, design/development roadmaps, and code
- Performed comprehensive data scraping to get transaction merchant info, saving the company ~$1 million over the next year
- Built scraping within a backend Python service, helping pave the way for service-oriented architecture within the company
- Implemented daily job for new transactions & merchants, and integration with mobile app for new transactions
- Designed front-end changes in Arrow Card app to deliver enhanced transaction insights to users
- Enhanced accessibility for vision-impaired users in mobile app, changes are now live in the app store (JavaScript, React Native)

BookHolders
Software Engineering Intern
College Park, MD
Summer 2016, Winter 2016

- Wrote + optimized Python (Selenium server)code using XML templates
- Performed major upgrades (integration with Flask backend, UI/UX overhaul) to internal Android app
- Designed and developed brand-new user dashboard by integrating React.js with Flask backend
- Wrote barcode generation algorithms to dynamically print USPS labels (ASP./NET/VB)
- Scraped websites and order emails to return clean data (Selenium server, Python regular expressions)

PROJECTS

Supermodel
Jul 2017

Flask web app that automatically generates machine learning models for mainstream use.

SparkMark
Jan 2017 to Current

Co-founded a non-profit student-run consulting organization that specializes in utilizing a Gen Z perspective to help startups and small businesses better understand and adapt to a changing business climate.

Bipartisan
Feb 2017

Flask web app that uses machine learning and natural language processing to find the credibility of news articles. (hophacks-bipartisan.herokuapp.com)

Galileo
Jan 2017

Flask web app that uses a special pruning algorithm to find the optimal UMD class schedule based on a student's classes and preferences. (hackstreetboys-galileo.herokuapp.com)

PhoneBuzz
Oct 2016

Flask web app that plays Fizz Buzz with a user through a phone call using Twilio. (rach-phonebuzz.herokuapp.com)

Voluntutor
Apr 2016

Laravel (PHP) web app that shows tutoring opportunities and requests for school organizations. Created for IB Computer Science Internal Assessment. ((rach-voluntutor.herokuapp.com)