Ayush Garg

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EDUCATION

DUKE UNIVERSITY
Expected May 2024 | Durham, NC
Pursuing BS in Computer Science
GPA: 4.0/4.0
Robertson Scholar (Selective leadership program and full-ride merit scholarship)

Relevant Courses:
Data Structures and Algorithms
Computer Architecture

Activities: Undergraduate Research, Duke Applied Machine Learning, Rhydhun (Bollywood Dance Team)

PEAK TO PEAK HS
May 2020 | Lafayette, CO
GPA: 4.0/4.0 (13 AP Courses)
SAT: 1560/1600; ACT: 35

Relevant Courses:
Multivariable Calculus
Differential Equations

Leadership: Reading Buddies (Founder), Environmental Club (Founder), Science Olympiad (Captain), Debate (Captain, TA), NHS (Council)

SKILLS

Intermediate:
• Java • Python (& Flask Web Framework)
• React • React Native • HTML • CSS

Novice:
• C • Javascript • Redux Library • Bootstrap
• SQL • Figma & Framer (UI/UX Prototyping)
• Jest and Enzyme Testing for React

Languages: English • Spanish • Hindi

Certifications: Responsive Web Design Developer (300 coursework hours) View

HACKATHONS

•PennApps XXI (Created educational tool to learn about the world's geography) View
Award: Best Use of Wolfram Technology

•IDEATE: A Virtual Designathon (Prototyped a digital healthcare solution for nurses during COVID-19) View

EXPERIENCE

PROJECT BECK | Web & Mobile Development Lead
June 2020 - Present | Virtual
- Implementing cognitive-behavioral therapy assistance for people with depression through an app built using React Native and cloud-hosted Firebase
- Leading a team of 15 developers in building the company's web portal

WOTO | Back-End Software Engineer
Sept 2020 - Present | Durham, NC   View App
- Incorporating real-time communication between front- and back-end processes for a web app that helps professors manage virtual office hours

FIND SURGICAL SCIENCES | Software Engineering Intern
Nov 2020 - Jan 2021 | Virtual
- Developing web-based tools that integrate neuroimaging data to currently improve surgical planning and execution in Massachusetts General Hospital

BETSOL | Software Engineering Intern
May 2018 – Aug 2018 | Denver, CO   View Research
- Conducted and presented research to CEO and company executives on potential applications of blockchain technology for healthcare clients

ACE SPORTS | Tennis Lead Coach
June 2017 – Aug 2018 | Westminster, CO
- Supervised 4 assistant coaches and taught weekly 3-hour lessons to 50+ kids

RESEARCH

NICHOLAS SCHOOL OF ENVIRONMENT | CS & Statistics Researcher
Aug 2020 – Present | Duke University   View Code
- Building web & mobile dashboards that calculate COVID-19 transmission risks
- Assisting design of statistical modeling systems for infectious disease spread

ATLAS INSTITUTE | AI & ML Researcher
Aug 2018 – Apr 2019 | University of Colorado Boulder   View Code
- Defined a natural language processing (NLP) research project on how autonomous assistants can learn to interpret various prepositional phrases
- Developed 6 machine learning models using Python by scraping MTurk data sets and utilizing Vicon tracking software to conduct a human experiment

PERSONAL PROJECTS

SUDOKU WEB AND MOBILE APPLICATIONS
Python (Flask), Javascript (jQuery), HTML, CSS, React Native   View Web App
- Architected and created a Sudoku web application that allows users a customizable experience in which they can play and solve Sudokus
- Spearheaded the back-end Python backtracking algorithm and the Javascript/HTML needed for seamless user experience and interaction
- Constructed a related iOS/Android mobile app using React Native View Mobile App

HELP-REQUEST CONTENT MANAGEMENT SYSTEM
PHP, SQL, AJAX, HTML, CSS
- Automated a system that allows students to request live help from a teacher
- Instituted password-protected back-end access for teachers and independent front-end access to a self-processing form for students