Ayush Upneja

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Education

Boston University Boston, MA

BS Computer Engineering | Cum Laude | GPA: 3.54/4 *Sep. 2017 – May 2021*

Awards: Best ECE Senior Design Project, 1st Place @ Google & NCAA Hackathon, Top 16 US MIT Battlecode

Teaching Assistant for: Applied Algorithms, Software Design, Enterprise Client-Server Software System Design

Experience

Blend New York, NY

Software Engineer - Personal Loans Platform *Jun. 2021 – Present*

- Architecting Wells Fargo Borrower experience from scratch, including building workflow and integrating decision logic
- Created features for Lender UI Service, including validations & configurable components using Typescript and Node.js
- Overhauling testing infrastructure to remove snapshot bloat, replace synchronous tests, and replacing mocks with stubs to change unnecessary integration tests to valid unit tests, increasing testing speed by 40%

Amazon Seattle, WA (Remote)

Software Development Engineering Intern - Adaptive Content and Suggestions Team *May. 2020 – Aug. 2020*

- Developed a robust end to end portal that enables feature owners to configure and evaluate targeting criteria based on intent, slots, and logical directives invoked by the shopping speechlet at the end of a successful dialogue
- Built backend API with Java/Spring supporting CRUD operations for each expression and relevant Cucumber unit tests
- Stored criteria expressions & test results in DynamoDB, and built front-end portal for feature owners with Handelbars.js
- Provided validation testing as a prerequisite for updating/saving targeting criteria, saving 15 dev hours / week

Google Cloud Boston, MA

Student Developer Fellow - Data Engineer Intern *Feb. 2019 – Apr. 2019*

- Selected as 1 of 30 undergraduates to create prediction models for 2019 NCAA March Madness Tournament
- Utilized machine learning and data visualization to quantitatively model real-time team "Explosiveness" on Google Colab
- Participated in Google Cloud commercials, which aired during Final Four/championship games to >100 million viewers and displayed our predictions (within 75% accuracy) for lead changes, 3-pointers, and possessions
- Represented Google at Google Cloud Next '19 (35,000 attendees), presented our work to other vendors and customers

GE Aviation Cincinnati, OH

Software Engineering Intern *May 2018 - Aug. 2018*

- Created cloud based vector calculator with Visual Basic and HTML. Used by over 500 Assembly Engineers
- Developed predictive engine failure response tool, saving hundreds of waiting hours every week due to recurring faults
- Automated ATD data pulling and plotting for entire Test Engineering team saving 10 dev hours / week

Relevant Skills

Languages: Python | Typescript | C++| C | C# | Java | Matlab | SQL | Javascript | HTML/CSS

Frameworks/Technologies: Django | Flask | Git | Node | React | Angular | Latex | ASP.Net | Cucumber | Arduino

Relevant Coursework: Applied Algorithms | Probability | Linear Algebra | Cloud Computing | Machine Learning

Projects

Autonomous Vehicle: IOT Final Project [C, Node.js, Jquery, Raspberry Pi] *Dec. 2019*

- Built an autonomous vehicle controlled by a web client through live video streamed with a Raspberry Pi
- Can travel any course with stop and start signals from infrared beacons and decode a QR code "flag" at end.

Stardust: $12,000 Grand Prize Winner @ Capitol Royale [Django, React-Native, Swift, SDL] *Nov. 2019*

- Built an AI Radio DJ that books parking & tickets, and curates music through sentiment analysis and location
- Assembled application directly into Ford center display with a companion mobile interface for passengers

Bikeable: Best Data Usability Award @ PennApps [Flask, GAE, Leaflet.js, Firebase, NumPy, SQL] *Sep. 2019*

- Created web application that generates safe bike paths in Boston from empirical accident data with routing algorithm
- Applied heatmap visualizations using Kernel Density Estimation of theft data to denote danger hotspots for parking

Leadership

College of Engineering Student Body President Managed $20,000 budget to plan college-wide events for 1800 students

Dean's Host & Lead Engineering Ambassador Led prospective student events and gave engaging tours to families