

AYUSH UPNEJA

🌐 US Citizen | 📞 (814) 574-5900 | ✉ upneja@bu.edu | 🌐 ayush-upneja | 📧 ayushupneja

EDUCATION

Boston University College of Engineering

Senior, BS Computer Engineering | Dean's List | GPA: 3.56

Boston, MA

Sept. 2017 – Expected May. 2021

EXPERIENCE

Amazon

Seattle, WA (Remote)

Software Development Engineering Intern

May. 2020 – Present

- Developing a targeting criteria creation and evaluation portal for Alexa Shopping Hints as the end to end project owner.
- Designing database structure (DynamoDB), building back-end APIs (Guice), and writing unit-tests (Cucumber).

Reflexis Systems

Dedham, MA

Software Engineering Intern

Jun. 2019 – Aug. 2019

- Worked with IBM's Cognos SQL business intelligence suite to conduct predictive analysis for retail clients.

Google Cloud

Boston, MA

Student Developer Fellow

Feb. 2019 – Apr. 2019

- Utilized machine learning and data visualization to quantitatively model "Explosiveness" for NCAA March Madness.
- Published and aired four real-time predictions regarding possessions, offensive rebounds, assists, etc.

Performance and Energy-Aware Computing Laboratory

Boston University, MA

UROP Research Student

Sep. 2018 – Dec. 2018

- Evaluated fuzzy hashing algorithms to develop characterization solution for unnamed submitted jobs in a server.

GE Aviation

Cincinnati, OH

Assembly and Test 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 failure response tool, saving hundreds of waiting hours every week due to recurring faults.

PROJECTS

Bare Metal Marketplace [Flask, SQLAlchemy, Python]

May. 2020

- Built a marketplace where users can rent and sell bare metal nodes in EC528 Cloud Computing.
- Designed and built the auction engine and double-blind algorithm that matches up bids and offers.

Autonomous Crawler: IOT Final Project [C, Node.js, JQuery, Raspberry Pi]

Dec. 2019

- Built an autonomous crawler controlled by a web client through live video streamed with a Raspberry Pi.
- Can travel any course with stop and start signals from IR beacon 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 SDL display with a companion mobile interface for passengers.

Bikeable: Best Data Usability Award @ PennApps [Flask, GAE, Leaflet.js, Firebase, NumPy, jQuery, 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.

RELEVANT SKILLS

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

Frameworks/Technologies: Django | Flask | ASP.Net | Guice | React | React-Native | Latex | Git | Cucumber | Arduino

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

LEADERSHIP

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

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

Applied Algorithms Teaching Assistant Hold weekly office hours and grade homeworks/exams for 83 students.

AWARDS

DappHero Winner @ ETHLondonUK: Mar. 2020

2nd Place @ JP Morgan Code for Good: Oct. 2019

Battlecode Top 16 US @ MIT: Jan. 2020

1st Place @ Sonos Challenge: Oct. 2019

\$12,000 Grand Prize @ Capitol Royale: Nov. 2019

Best Data Usability Award @ PennApps: Sep. 2019

Best Financial Hack @ HackHarvard: Oct. 2019

Grand Prize @ Google & NCAA Hackathon: Feb. 2019