

Keshav Maheshwari

km02@bu.edu • www.github.com/keshavm02 • www.linkedin.com/in/keshavm02 • www.keshavmaheshwari.us

Seeking Full-Time for Fall 2021

EDUCATION

Boston University | GPA: 3.76

May 2021

B.A in Computer Science | Major GPA: 3.81

Selected Coursework: Cybersecurity | Applied Crypto | Computer Networks | Analysis of Algorithms | Concepts of Programming Languages | MEAN Stack Development | Software Engineering | Probability in Computing | Calculus I&II

SKILLS

Experienced: Python | Java | git | bash | HTML | CSS | Swift | Ocaml | C | Flask | Docker | Heroku | AWS EC2/EB | CircleCI | Firebase

Intermediate: JavaScript | Node.js | SQL | Sqlmap | Nmap | R | Wireshark | Grafana | Podman | Quay | Prometheus | Express | Mongo

Beginner: C++ | Angular | GCP | AWS SNS

PAST WORK EXPERIENCE

Red Hat, Software Engineering Summer Internship

May 2020 – August 2020

- Built raw data collection modules to collect GPU config data and metrics that help analyze usage during ML workloads
- Implemented data processing modules and visualizing frameworks so the HPC team can visualize live or past GPU data
- Integrated all modules into Pbench (Red Hat performance tool), to automate collection and storage
- Programmed and pushed a Docker image which can be pulled for automated Grafana visualization of past data
- Demonstrated work by running a live ML workload to collect+visualize GPU metrics (temp, power, memory)

Suffolk County District Attorney's Office (SCDAO), Full Stack iOS Developer

Jan 2020 – May 2020

- Developed frontend with Swift, backend with Flask+MySQL, to build app that scans criminal documents
- Pioneered the automation of image processing+storing for criminal complaint forms to reduce wrongful incarcerations

RideFair, iOS Developer | Co-Founder

Jan 2020 – May 2020

- Designed, developed iOS app from scratch, to make Boston public transit more accessible for disabled persons
- Implemented accessibility focused navigation, ratings, reviews, station-info using the MBTA API and Firebase
- Awarded the Best Technology award by BU Spark and featured in BU Today article

Íko Systems, Full Stack Developer

June 2019 – August 2019

- Built an extensive iOS (full stack) app from scratch that monitors and controls the customers' micro-greenhouse
- Synchronized IoT devices with app UI for automated and optimized plant growth through AWS IoT, S3, SNS

Centori, Software Engineering Intern

June 2019 – August 2019

- Developed backend resources in Python for a Django app that facilitates content strategy and SEO

TECHNICAL AND LEADERSHIP EXPERIENCE

Hack4Impact BU Chapter, Project Lead | Vice President Strategy, Boston, MA

February 2019 – Present

- Envision and strategize the club's future and maximization of our social impact around the globe
- Leading team to develop Agriworks (www.agri-works.org), an Agricultural data visualization and research tool
- Implemented with VueJS, Flask, MongoDB. CI/CD with CircleCI, AWS EC2/EB. Containerization with Docker.
- This tool will guide Indian agricultural policy decisions, possibly leading to a lower farmer suicide rate in India

Upsilon Pi Epsilon (Honor Society for Computing), Recruitment Committee Member, Boston, MA

May 2020 – Present

- Serve on the recruitment committee to interview, evaluate, and deliberate incoming members of the honor society

Boston University CS Department, Course Assistant, Boston, MA

Jan 2020 – May 2020

- Assisted Prof. Mark Crovella in teaching Computational Linear Algebra by holding office hours, grading assignments

Global App Initiative, Vice President Client Relations | Software Developer, Boston, MA

September 2018 – July 2019

- Managed client relations and communicated project expectations to and from the dev teams
- Worked with team to develop React Native app that scans food product barcode and displays cancer risk assessment
- Integrated app with ingredient details and product image by utilizing "Open Food Facts" database's API through Python

HackHaverhill, UMass Lowell Hackathon 2018 Participant, Haverhill, MA

November 2018 – November 2018

- Formed team of programmers to develop interactive web-based application to connect parents, teachers, students
- Used React.js and Node.js to deploy app, Twilio API for secure communication, Google API for chat translation
- Achieved Judge's Choice Award (\$1000) for functional, interactive app which also respected user privacy

BostonHacks, Boston University Hackathon 2018 Participant, Boston, MA

November 2018 – November 2018

- Worked with team to develop "Iota", that accepts GPS coordinates and evaluates sidewalk conditions for city of Boston
- Utilized Google Maps API and Darknet Computer Vision library to identify sidewalk location and quality