

# Gagandeep Kang

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## EDUCATION

### BOSTON UNIVERSITY

#### BA IN COMPUTER SCIENCE AND MATHEMATICS

May 2022 | Boston, MA

Cum. GPA: 3.86 / 4.0

#### Awards and Honors:

Dean's Honor List (Fall 2018,  
Spring 2019, Fall 2020,  
Spring 2020)

## COURSEWORK

### UNDERGRADUATE

Intro to Programming in Python  
Data Structures and Algorithms  
Combinatoric Structures  
Computer Systems  
Probability in Computing  
Linear Algebra  
Calculus I, II  
Multivariate Calculus  
Algorithm Analysis

## SKILLS

### PROGRAMMING

Proficient:

Python • Java • Javascript  
Swift • MongoDB • HTML • CSS

Familiar:

C • MySQL •  $\LaTeX$

### FRAMEWORKS

Flask • Node.JS • VueJS  
React • React Native  
• Express • jQuery

### TOOLS

Git • Jira • Pandas • NumPy  
Matplotlib • Jupyter Notebook

### LANGUAGES

English • Punjabi

## EXPERIENCE

### HARIRI INSTITUTE | SOFTWARE ENGINEERING INTERN

May 2020 – Present | Boston, MA

- Building internal time tracking tool that allows Hariri admin to evaluate research grant spending while also analyzing employee progress
- Created pivot table interface using JavaScript, PHP, and SQLite with optional CSV and TSV export functions
- Designing modern version of the organization website (sail.bu.edu), including 1979 asteroids arcade game built in JavaScript, along with addressing current website bugs

### BU SPARK! | SOFTWARE ENGINEERING INTERN

Jan 2020 – May 2020 | Boston, MA

- Developed mobile application that connects Latin American students interested in research with appropriate mentorship and resources.
- Implemented core functionality including an algorithm that matches students to mentors based on research experience and interests along with a chat room system.
- Built with React Native, Redux, and Firebase

### BU CHEMISTRY DEPARTMENT | ADMINISTRATIVE ASSISTANT

Sep 2018 – Present | Boston, MA

- Maintain inventory for department reservations and room assignments using 25Live system
- Record and update student transfer credits within TES software and Microsoft Excel

## PROJECTS

### AGRIWORKS | HACK4IMPACT | AGRI-WORKS.ORG

Sep 2019 – Present

- Developing web platform for data scientists, farmers, and policymakers to analyze agricultural datasets
- Building application using VueJS, AWS, Flask, and MongoDB

### FAKE NEWS | BOSTONHACKS

December 2019 | Boston, MA

- Created a Google Chrome extension that checks the authenticity of a news article by using machine learning classification and a PageRank Algorithm
- Built extension using Python, JavaScript and Google Cloud API

## ORGANIZATIONS

### GLOBAL APP INITIATIVE | PRESIDENT

Jan 2019 – Present | Boston, MA

Working with Wellesley Cancer Prevention Project to develop mobile application that scans bar codes of food products to discover potentially carcinogenic ingredients

### OPENWEB | VICE PRESIDENT

Sep 2020 – Present | Boston, MA

Created incubator for software development which includes campus workshops and an environment for coders to work on projects together