Gagandeep Kang

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EDUCATION

Boston University   Boston, MA
Bachelor of Arts in Computer Science, Minor in Mathematics   *Sept. 2018 – May 2022*

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, HTML5, CSS3
Frameworks: React, React Native, Node.js, Flask, Vue.js, Express, JQuery
Tools: MongoDB, Firebase, AWS, Chai, Mocha, git

EXPERIENCE

Software Development Engineer Intern   June 2021 – August 2021
Amazon   *Cambridge, MA*

- Developed a web application allowing Alexa Scientists to explore various pre-trained machine learning models
- Integrated visualizations using a JavaScript graphing library allowing users to observe model performance against benchmark metrics
- Increased unit testing coverage by 60% using React Testing Library, Jest, and MSW
- Built tool using a serverless architecture with a stack of React.js, AWS Lambda, DynamoDB, and S3

Software Engineer   Jan. 2021 – May 2021
Keep.id   *Philadelphia, PA*

- Created functionality to allow non-profits to upload, view, and download client documents on existing web application
- Improved code quality by refactoring directory structure and adding unit tests using React Testing Library and Jest

Software Engineer Intern   May 2020 – May 2021
Hariri Institute of Computing   *Boston, MA*

- Designed verifiable computations in Python for legally and socially relevant scenarios that can be proved using zero-knowledge—a cryptographic data verification method
- Updated JavaScript genetic design tool to incorporate processing of a new file format called SBOL
- Upgraded internal grant reporting tool to allow admin to monitor and evaluate research grant spending
- Constructed a PivotTable interface using JavaScript, PHP, SQLite with optional CSV and TSV export functions

Software Engineer Fellow   Jan. 2020 – May 2020
Boston University Spark!   *Boston, MA*

- Programmed a React Native mobile application connecting Latin American students interested in research with mentorship and resources
- Engineered an algorithm matching students to mentors based on previous experience, research interests, and language
- Introduced real-time chat room for live communication between students and mentors using Firebase
- Explored the software development lifecycle and using Agile methodologies such as weekly design sprints and team code reviews

PROJECTS

Nod Financial Technologies | *Chief Technology Officer* | nodpay.app   Aug. 2020 – Present

- Launching a mobile app to promote digital transactions in Pakistan
- Leading development using a tech stack of React Native, Redux, Node.js, Express, Firebase, and MongoDB

Agriworks | *Software Engineer, Business Developer* | agri-works.org   Sept. 2019 – Feb. 2021

- Established a platform for data scientists and policymakers in India to analyze agricultural datasets to spur data-driven policies
- Implemented tool using Vue.js, Flask, MongoDB