

## Himesh Buch

Phone: (973) 462-5921 Email: [buchhimesh@gmail.com](mailto:buchhimesh@gmail.com) git: <https://github.com/himesh257/>

### Education

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Rutgers School of Arts and Science (New Brunswick)

Major: **Computer Science**

Minor: **Statistics**

### Technical Skills

<b>Programming languages:</b>	Java, Python (Flask, Jinja), R, JavaScript (Angular, React, ElectronJS, NodeJS, JQuery, AJAX), React Native, Bash, Dart (Flutter)
<b>Cloud Platforms:</b>	AWS ( EC2, Elastic Bean Stalk, S3, Glacier), Microsoft Azure, Docker
<b>Other:</b>	XML, HTML, YAML, JSON, Memcached
<b>Database:</b>	MongoDB, SQL, MySQL, SQLite, Oracle, Git, SVN
<b>Operating systems:</b>	Windows, MacOS, Android, Linux (Ubuntu, CentOS, RedHat)

### Experience

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*Rudraya Software (Full Stack Software Engineer)*

*09/18 to present*

- Worked with **Python** and **JavaScript** as main programming languages to design various features of company's software
- Experience administering systems hosting **Linux, Ubuntu**, and **CentOS** with Linux **shell scripting (bash)**
- Designed a fully functional, cross-platform desktop app with **ElectronJS** and **SQLite** database that can integrate with company's main application
- Performed user account administration, networking, backup/recovery, and supported periodic security auditing/logging
- Used **R, Java**, and **Bash** for automation and API testing
- Developed a mobile application single handedly using **React Native** and **NodeJS** with **SQL** database
- Hands on experience with using various **AWS** and **Azure** services for cluster computing to run multiple processes faster at the same time

*Aresty Research (Research Assistant): Agent-Based Modelling of Economic Systems*

*09/2019 to 05/2020*

- Examined different models that can help to explore the nature of intertemporal and risk preferences with the use of **statistics**.
- Developed multiple research experiments to explore decision making when subjects experience different types of growth rates, different timing of payoffs, and uncertainty, and used **R** and **SAS** to do **regression analysis** on the data collected from the experiment
- Constructed computer **bots** to further investigate possible strategies for survival in various economic environments.

## Projects

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- **Trading Bot:** A stock trading bot in Python that can successfully publish trades by taking risks and other factors in account for the maximum profit. GitHub repo: <https://github.com/himesh257/TradingBot>
- **Search Engine:** A search engine that can specifically search for PDFs and/or links by using Google's APIs. Other features included saving history and bookmarks, locally per user. Made with Python and AJAX along with HTML and CSS. GitHub repo: <https://github.com/himesh257/Search-Engine>
- **Chrome extension** on chrome web store: A chrome web extension that can clear the cache and refresh the page in one go. Chrome Webstore link: <https://chrome.google.com/webstore/detail/cleanup/lpjdifkmhncpkkaaglchomjbgbopfjeo>
- **Cipher Attacks:** Implemented four different attack modes using three different encryption scheme, Block Cipher, Stream Cipher, and RSA key encryption. Used sockets for communication. GitHub repo: [https://github.com/himesh257/Cipher\\_Attacks](https://github.com/himesh257/Cipher_Attacks)

Himesh Buch  
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Kristen Garbarino  
100 SAS Campus Dr,  
Cary, NC 27513

October 10, 2020

Dear Kristen,

Hope this letter finds you well. I would like to thank you first for taking the time to talk to me at the Career Fair at Rutgers University (New Brunswick). To quickly introduce myself, I am a senior at Rutgers University, majoring in Computer Science with a minor in Statistics. My expected graduation date is December of 2020. I am currently looking for full time permanent positions as a Software Engineer with esteemed organizations like yours. Working at SAS has been a dream of mine and the recent job posting that you told me about fits me perfectly.

I have been working as a Software Engineer since my sophomore year of college. Working, along with acing the comprehensive Computer Science curriculum at Rutgers, has been a bit challenging but gave me a great opportunity to grow as a Software Engineer and be proficient in it. At my current job, I usually work with programming languages like JavaScript and Python to design the main application of the company. Not only that, I also help out the support team to set up any client servers or resolving any ongoing issues. When I first started, I worked on a mobile application using React Native and NodeJS along with MySQL database. The application was for a children's hospital for better communications between doctors and parents. I am recently working on a cross platform desktop application that can work seamlessly in any operating system using ElectronJS. I know at SAS, software applications like MATLAB, R, and SAS itself are used a lot which I am also familiar with and have experience using it in a professional environment. I am really passionate about coding and it motivates me to work even harder and get better at it.

I am confident that my background and knowledge in the Information Technology arena coupled with my strong technical skills in software languages will prove an asset to your organization and add immediate value to it. Please reach out to me if you have any questions or need more information about me. My contact number is (973) 462-5921 and email address is [buchhimesh@gmail.com](mailto:buchhimesh@gmail.com). Looking forward to hearing from you.

Sincerely,

A handwritten signature in black ink, consisting of a large, stylized 'H' followed by a cursive 'B' and a final flourish.

Himesh Buch

## Software Engineer at Google:

### **About the Job:**

Google's software engineers develop the next-generation technologies that change how billions of users connect, explore, and interact with information and one another. Our products need to handle information at massive scale, and extend well beyond web search. We're looking for engineers who bring fresh ideas from all areas, including information retrieval, distributed computing, large-scale system design, networking and data storage, security, artificial intelligence, natural language processing, UI design and mobile; the list goes on and is growing every day. As a software engineer, you will work on a specific project critical to Google's needs with opportunities to switch teams and projects as you and our fast-paced business grow and evolve. We need our engineers to be versatile, display leadership qualities and be enthusiastic to take on new problems across the full-stack as we continue to push technology forward.

Google aspires to be an organization that reflects the globally diverse audience that our products and technology serve. We believe that in addition to hiring the best talent, a diversity of perspectives, ideas and cultures leads to the creation of better products and services.

Google is and always will be an engineering company. We hire people with a broad set of technical skills who are ready to take on some of technology's greatest challenges and make an impact on millions, if not billions, of users. At Google, engineers not only revolutionize search, they routinely work on massive scalability and storage solutions, large-scale applications and entirely new platforms for developers around the world. From Google Ads to Chrome, Android to YouTube, Social to Local, Google engineers are changing the world one technological achievement after another.

### **Minimum Qualification:**

- Bachelor's degree or equivalent practical experience.
- Experience in Java, C/C++, C#, Objective C, Python, JavaScript, or Go.
- Experience in any of the following: web/mobile application development, Unix/Linux environments, distributed/parallel systems, information retrieval, networking, systems/security software development.

### **Responsibilities:**

- Design, develop, test, deploy, maintain and improve software.
- Manage individual project priorities, deadlines and deliverables.
- Focus on overall product quality and user experience.
- Take initiative and be responsible for technical solutions to data quality and workflow challenges.