

Saakshaat Singh

SOFTWARE ENGINEER · PROJECT MANAGER

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Education

University of Massachusetts, Amherst

Amherst, Massachusetts

B.S. IN COMPUTER SCIENCE AND MATHEMATICS

Sept. 2019 - Present

- **GPA: 4.0 | Honors | Dean's List**
- Recipient of the **Chancellor's Award** and **Dean's International Scholarship**
- **Coursework:** Data Structures, Discrete Math, Programming Methodologies, Reasoning under Uncertainty, Calc 2, Multivariate Calc, Linear Algebra

Skills

Languages: Java, C++, Python, JavaScript, Ruby, Bash, HTML, CSS, SCSS

Frameworks: Express.js, React.js, FastAPI, Ruby on Rails, Kivy

Software Engineering: Docker, SQL, NoSQL, Object Relational Mapping, MVC Architecture, OOPS, VCS, Agile

Web Development: AWS (EC2, RDS, S3), Google Cloud Platform, Firebase, Node.js, REST

Work Experience

Center for Youth Engagement

SOFTWARE ENGINEER

Jun. 2020 - Present

- Architected and engineered organization-wide **backend packages** in Python cutting down redundant code by over **25,000+ lines** and speeding up development of future projects by weeks
- Engineered **python server**, hosted on **AWS EC2, RDS and S3**, for providing backend functionality to over 50 iPad client applications for an educational research project involving incarcerated youth in juvenile detention in Arizona
- Developed a **full stack system** using **python and react.js** for data analysis on different research programs by parsing surveys and containerized and deployed it using **Docker** and **AWS**

Cargill Pvt. Inc.

CORPORATE SOCIAL RESPONSIBILITY INTERN

Apr. 2019 - Aug. 2019

- **Oversaw** CSR representatives throughout India in **6 locations** for volunteer projects leading to an **increase in employee participation by 20%**
- Audited NGO partnerships and prepared ROI analysis, leading to the **creation of a review based pipeline** for logistics reporting across India
- Started **company-wide fundraiser** for recycling pen waste with NGO partner to support over **2,000 children in poverty** through upcycled stationary

Clubs

UMass Association for Computing Machinery

Largest tech club in Western Mass.

VICE CHAIR

Jan. 2020 - Present

- Leading our groups through our **strategic roadmap** and developing infrastructures to support their executive boards manage their activities
- Set up web dev and marketing teams, leading to member **growth from 200 to 600+** winning the ACM global award for **Best Recruitment Program**
- **Founded** ACM ICPC and Blockchain group, latter led by **Bitcoin co-founder Gavin Andresen**

UMass Developer Student Club

Chapter of Google DSC

OPEN SOURCE DEVELOPER

Feb. 2020 - Present

- Developing **open source software** with developers from DSCs across the globe
- Working on project-matching which also draws contributors from **DSC UIUC and NTU**

Projects

stocksmith: startup initiative for building **automating stock analysis** system using **ML** and **NLP** | founder/**project manager**

project-matching: making onboarding easier by matching members to projects in teams | founder and -maintainer/**ruby on rails/ DSC**

dequarantine: HackQuarantine COVID hack for online social events platform | **tech lead** for 7 devs from 4 countries/backend/**FERN/agile**

memories full stack social media platform just for my friends built using **Firebase, Express** and **React & Redux**

sahayak: working **voice assistant** in **Python** which can search using **selenium**, do math using **Wolfram Alpha**, send emails and open apps