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	Python, Java, C++, Ruby, JavaScript, Bash, HTML, CSS, YAML
Frameworks	Ruby on Rails, Express.js, React.js, FastAPI, Kivy
Software Engineering	Docker, NoSQL, Object Relational Mapping, MVC Architecture, Package Engineering, OOPS, VCS, Agile
Web Development	AWS (EC2, RDS, S3), Google Cloud Platform, Firebase, Node.js, REST, Service Workers

Work Experience

Center for Youth Engagement *Amherst, Massachusetts*
Software Engineer *Jun. 2020 - Present*
- Architected organization-wide backend packages in Python reducing redundant code by **25,000+ lines**, boosting development cycles by weeks and centralizing a robust backend codebase for future projects
- Engineereed python server, hosted on AWS EC2, RDS and S3, for providing backend functionality to over 50 iPad client applications an NSF research program involving children in juvenile detention
- Developed a full stack system using python and react.js for data analysis on multiple research programs by parsing surveys and containerized and deployed it using Docker and AWS

Cargill Pvt. Inc. *Gurgaon, India*
Corporate Social Responsibility Intern *Apr. 2019 - Aug.2019*
- Spearheaded CSR representatives throughout India in 6 locations for volunteer projects leading to accelerated 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
- Launched company-wide fundraiser for recycling pen waste with NGO partner to support **2,000+ children** in poverty through upcycled stationary

Extracurricular

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
- Established a marketing team augmenting member growth from **200 to 600+** winning the ACM global award for Best Recruitment Program
- Founded ACM ICPC and Blockchain groups, latter led by Bitcoin co-founder *Gavin Andresen*

UMass Developer Student Club *Chapter of Google DSC*
Open Source Developer *Feb. 2020 - Present*
- Advancing open source technologies for the common good through a network of DSC developers across campuses
- Inventing a platform for optimizing onboarding through project matching as a stable marriage problem in collaboration with *DSC UIUC* & *NTU*

Projects

stocksmith	open source developer packages for automated stock analysis using ML & NLP | *founder*, package engineering, PyPI
project-matching	platform for matching club members to projects through stable marriage | founder and *core-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	functional voice assistant in Python which can search using selenium, do math with Wolfram Alpha, send emails and open apps