Saakshaat **Singh**

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Education

University of Massachusetts, Amherst   *Amherst, Massachusetts*
B.S. IN COMPUTER SCIENCE AND MATHEMATICS   *Expected Graduation: December, 2022*

- **GPA: 4.0 | Commonwealth Honors College | Dean's List**
- Recipient of the Chancellor's Award and Dean's International Scholarship
- **Relevant Coursework:** Computer System Principals, Programming Methodologies, Data Structures , Discrete Mathematics, Reasoning under Uncertainty, Calculus II, Multivariate Calculus, Linear Algebra

Skills

Languages	Python, Java, C++, Ruby, JavaScript, TypeScript, Bash, YAML
Frameworks	Ruby on Rails, Express.js, React.js, FastAPI
DevOps	Terraform, Docker, GitHub Actions, AWS CodePipeline
Web Development	AWS, Google Cloud Platform, Firebase, Node.js, REST
Software Engineering	SQL, NoSQL, Object Relational Mapping, MVC Architecture, Package Engineering, Agile

Work Experience

Center for Youth Engagement   *Amherst, Massachusetts*
SOFTWARE ENGINEER   *June 2020 - Present*

- Architected an in-house backend framework in Python reducing code by **25,000+ lines** and boosting server development by 4 weeks
- Automated AWS setups with Terraform infrastructures for provisioning multiple cloud resources at command speeding setups by **2 weeks**
- Engineered **4+** REST APIs and databases in Python, hosted on AWS, providing backend functions to multiple NSF grant systems
- Developed AWS Lambdas and CodeDeploy instances using Terraform to optimize deployment workflows leading to **1 command** deployments

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

Leadership Experience

UMass Association for Computing Machinery   *Amherst Massachusetts*
VICE CHAIR   *January 2020 - Present*

- Orchestrating a **5 year** strategic road-map by leading the executive boards of 5 Special Interest Groups for *growing the tech culture at UMass*
- Honored to win ACM's global **Best Recruitement Award** for establishing a marketing team which led to a **300%** member-growth
- Founded ACM Competitive Programming, Web Development and Blockchain groups, latter led by Bitcoin co-founder *Gavin Andresen*
- Brought recruiters from major tech companies to campus for events to provide industry exposure and networks for our members

Google Developer Student Club   *Amherst, Massachusetts*
OPEN SOURCE DEVELOPER   *February 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 library to bootstrap automated stock analysis apps using ML & NLP | python, package engineering, PyPI
Ocelot	maintaining the largest in-house JS transpiler used by over **1200+** students annually in *CS 220* | TypeScript, React
project-matching	platform for matching club members to projects through stable marriage metrics | founder and *core-maintainer*, ruby on rails
dequarantine	hack quarantine COVID hack for online platform for virtual social events | *tech lead*: 7 devs - 4 countries, agile, node, firebase
memories	full stack social network platform for my friends circles with **60+** users | 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