BHAKTI SHAH

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SELECTED SKILLS

Languages & Technologies

Assembly (x86-64)	C
Coq/Gallina	Git/SVN
Lean	JavaScript/TS
Haskell	Jest
Scala	Python
Java	R
SQL	React

LEADERSHIP

WeBring*: December 2020*
https://github.com/bhaktishh/WeBring
Winning project at a hackathon**.
Team Leader**. Built a service that
allowed elderly individuals to request
services via **SMS**, using **Twilio.**

Interstell\<her\> Hackathon:
February 2021
Mentored elementary and middle
school girls for an app development
hackathon over the course of two
days.

stories@CAJCS: *April 2019 –
December 2019*
Founder and Organizational Head
of an **annual event** aimed at highlighting
individuals in **non-conventional career
fields**.

TEACHING

**Virtual Introduction to
Programming course:** *June 2020*
Designed and conducted a course for
children aged 6-9. Primarily in **Scratch**.

Coding4Youth: *June 2021 – August
2021*
AP Java and middle school **mathematics
tutor**.

TA: **CMSC 11111** [Creative Coding]
Winter 2022.

Grader: **CMSC 16100** [Honors
Introduction to Computer Science I]
Autumn 2021. **CMSC 15200**
[Introduction to Computer Science II]
Spring 2022. **CMSC 27100** [Discrete
Mathematics] *Fall 2022*.

Course Assistant: **CMSC 22300**
[Functional Programming] *Autumn
2022*. Providing feedback and beta testing
potential assignments.

INTERESTS

Playing and watching soccer
Creating art
Playing the piano

EDUCATION

The University of Chicago — Chicago, IL
B.S. Computer Science (Declared) — June 2024
GPA: 3.69/4.00

SELECTED WORK EXPERIENCES

Amazon Web Services (AWS) [*http://aws.amazon.com/*] — East Palo Alto, CA, US
Software Development Engineer Intern — June 2022 – September 2022
- Transitioned the **logging system** for a backend dependency of the **AWS Global Console** to a more robust and accessible platform. Made **configuration changes** that **improved latency** and **ease of use** for all service teams across the Console.
- Wrote **holistic end to end tests** in **TypeScript** using the **Jest** framework for the same backend service, allowing a transition from slower, manual deployments to **faster, automated deployments** for a **high priority service**.

Bankuish [*www.bankuish.com/*] — Chicago, IL, US
Android Developement Intern — April 2021 – June 2021
- Built the learning component of the **Android** application Bankuish in **Java.**
- Utilized the **YouTube API** to display content dynamically.

Computer Science Instructional Laboratory [*csil.cs.uchicago.edu/*] — Chicago, IL, US
Systems Administrator — March 2021 – Present
- Assisting members of the computer science community with their technical needs.
- Head of Inventory and Scheduling, responsible for 5 computer labs and 30 staff members.

Sameeksha Capital [*sameeksha.capital*] — Mumbai, MH, IN
Intern — July 2020
- Built software that compiled data about company executives' interviews **dynamically**.
- Scraped web data in **Python**, utilizing the **Selenium webdriver API**.
- Stored data using the **Pandas** library and **pickling** for efficiency.

Heckyl Technologies [*http://heckyl.com/*] — Mumbai, MH, IN
Intern – Java Team — June 2019
- Built software that compiled data from regulatory sites and documents.
- Scraped web data in **Java**, utilizing the **HTMLUnit** browser and **PDFBox** library.
- Stored data in a **MySQL cloud database**, using **SQL** commands.

SELECTED PROJECTS & RESEARCH

tree-house — March 2022 – June 2022
Developing a code editor focused on **direct manipulation programming system**s in **TypeScript**. Based on *Sketch-n-Sketch*. Under guidance of Ravi Chugh, Associate Professor, University of Chicago.

Chicago Quantum and Programming (Languages) Lab (ChiQP lab) — April 2022 – Present
https://chiqp.cs.uchicago.edu/
Worked on **formal verification** of a **quantum programming library**. Currently working on translations between Lean and Coq theorem provers. Under guidance of Robert Rand, Assistant Professor, University of Chicago.

ucopendata — January 2021 – December 2021
https://github.com/UCOpenData
Analyzing the impact of remote learning on student sentiments, using web-scraping in **Python,** utilizing **Pandas, BeautifulSoup,** and **Selenium**.

Human-Robot Interaction Lab (HRI Lab) — February 2021 – March 2022
https://hri.cs.uchicago.edu/index.html
Exploring the impact of the presence of **robots** in relation to **fostering deep conversations** between individuals. Under guidance of Sarah Sebo, Assistant Professor, University of Chicago.

Pediatric Cancer Data Commons (Volchenboum Lab) — June 2021 – September 2021
https://commons.cri.uchicago.edu/pcdc/
Research Assistant with the PCDC. Working with an **expert data analyst** to **map data dictionary terms**. Under guidance of Samuel Volchenboum, Associate Professor, University of Chicago.