

## BHAKTI SHAH

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### SELECTED SKILLS

#### Languages, Frameworks & Technologies

Java	Python
Haskell	C
Coq / Gallina	JavaScript
Assembly (x86-64)	SQL
Git/SVN	React
React	Node.js

### LEADERSHIP

#### stories@CAJCS

April 2019 – December 2019

*Founder and Organizational Head*

An **annual event** aimed at highlighting individuals in **non-conventional career fields**.

#### Virtual Introduction to Programming course

June 2020

*Independently designed and conducted*

**Designed and conducted** a course for ages 6-9. Primarily in **Scratch**.

#### Interstell<her> Hackathon

February 2021

*Mentor*

**Mentored** elementary and middle school girls over the course of two days.

#### Coding4Youth

June 2021 – August 2021

*Tutor*

Tutored students for an AP Java course.

### ACADEMIC

Grader: **CMSC 16100** [Honors Introduction to Computer Science I] *Autumn 2021*.

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

Grader: **CMSC 15200** [Introduction to Computer Science II] *Spring 2022*

### INTERESTS

Playing and watching soccer  
Creating art  
Playing the piano

### PLANNED

#### EXPERIENCES

Incoming Software Engineering Intern at **Amazon Inc.** East Palo Alto, California. *Summer 2022*.

### EDUCATION

#### The University of Chicago

*B.S. Computer Science (Declared) & B.S. Mathematics (Planned)*

**GPA: 3.70/4.00 [Winter 2022]**

Chicago, IL

June 2024

### SELECTED WORK EXPERIENCES

#### Bankuish [[www.bankuish.com/](http://www.bankuish.com/)]

*Intern*

Chicago, IL

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/](http://csil.cs.uchicago.edu/)]

*Tutor*

Chicago, IL

March 2021 – Present

- Assisting members of the computer science community at UChicago in the instructional laboratory space. Team leader, inventory & scheduling.

#### Sameeksha Capital [[sameeksha.capital/](http://sameeksha.capital/)]

Mumbai, India

*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/>]

*Intern – Java Team*

Mumbai, India

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 – Present

Developing a code editor focusing on direct manipulation programming systems. Based on [Sketch-n-Sketch](http://sketch-n-sketch.com/). Under guidance of Ravi Chugh, Associate Professor, University of Chicago.

#### QuantumLib

April 2022 – Present

<https://github.com/inQWIRE/QuantumLib>

Working on formal verification of a quantum programming library. Optimizing controlled-not gate proofs. Under guidance of Robert Rand, Assistant Professor, University of Chicago.

#### WeBring (*Winning project: Francis and Rose Yuen East Asia Hackathon*)

December 2020

<https://github.com/bhaktishb/WeBring>

Built a service that allowed elderly individuals to request services via **SMS**, using the **Twilio SDK and API**. Developed using **Python**, **HTML/CSS**, and **SQL**. Team Leader.

#### 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.