

# Yash Bhedaru

Demical.org | yashvbhedaru@gmail.com | (408)-250-4258 | github/yashvb

## EDUCATION

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- University of California, Santa Cruz** Santa Cruz, CA  
*Bachelor of Science in Computer Science; Minor in Applied Mathematics* *June 2023*
- **Cumulative GPA:** 3.5/4.0
  - **Honors & Awards:** Dean's Honor List 2019, 2020, 2021, 2022, 2023
  - **Relevant Courses:** Advanced Computer Networks, Principles of Computer Systems Design, Computer Architecture, Data Structures and Algorithms
- University of California, Santa Cruz** Santa Cruz, CA  
*Master of Science in Natural Language Processing* *Expected June 2025*

## EXPERIENCE

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- Software Engineer Data Intern, Capital One** June 2023 - Present  
*SQL, Python, Machine learning, Snowflake, Jinja* *Dallas, TX*
- Assisted in a patented end to end automated dual control monitoring system for intent management policies using machine learning and big data.
- AEPi - Alpha Epsilon Pi Fraternity (Sigma Zeta Chapter)** March 2020 – Present  
*Risk Mangement Chair, Academic Advisor* *Santa Cruz, CA*
- Assisted associate members in academic advising and planning with the relevant resources and tools
- ACM - Association for Computing Machinery** September 2020 – Present  
*General Body Member* *Santa Cruz, CA*
- Assisted in the development of high level architecture for processor hardware based upon the open-source RISC-V Instruction Set

## PROJECTS

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- Demical.org** | *Firebase, Html/CSS, JavaScript, Node.js, Git* March 2021
- A personal website written from pure scratch without the use of templates or guides
  - Written in Html/Css with some Javascript and hosted on Google Firebase
- Twitter KeyWord** | *Twitter API, Python, Tweepy* February 2022
- A simple and lightweight 2 phase program that captures a Twitter user's entire tweet history with relevant metadata which is then parsed to allow for a multitude of analysis
  - Wrote using Twitter API endpoints with Tweepy library in python for parsing onto a csv file
- Authentication Website** | *SQL/mysql, Apache, Html/CSS, Php, Xampp, Bootstrap* October 2020
- A purely functional implementation of authentication for web hosting with validation, secret access, and consistent storage
  - Operates using dynamic username and password validation with complete admin oversight authority
- Multi-Threaded Http Proxy and Server** | *Linux, C, CURL, Gitlab* December 2021
- A multi-threaded http reverse proxy server that makes use of load balancing and caching to handle GET, PUT, and HEAD requests such as 200,201,404,500
  - Connects client requests to relevant host http servers with load balancing as it runs continuous health checks for http server health with some logic forwarding for selection of the most optimal http server
  - Makes use of POSIX threads to handle multiple concurrent requests with mutexes to handle concurrency

## TECHNICAL SKILLS

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**Languages:** Python, C, JavaScript, Html/Css, SQL, English, Spanish, Gujarati, Hindi

**Frameworks:** Firebase, Node.js, Git/Github, REST APIs, Pandas/Seaborn, Snowflake, Jinja