

Talhah Peerbhai

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EDUCATION

Carnegie Mellon University

Aug 2021 - May 2025

Bachelor of Science in Computer Science, Minor in Tech Entrepreneurship

Awards: Deans List (Fall24), Lifelines Hackathon 4th, Programming Contest 4th,

Porto CityXperiment

EXPERIENCE

Web Developer

May 2024 - Present

Carnegie Mellon University

Doha, QA

- Developed a REST API using FastAPI for scheduling software for students and faculty
- Developed a full-stack web application using Svelte, nodejs and FastAPI
- Collaborated with faculty and students to deduce needs
- Conducted customer validation and research, refining business model to meet market demands

Founder at ReelAxe

Jul 2024 - Aug 2024

University of Porto

Porto, PT

- Led the overall strategy, operations and visions of the startup
- Managed a cross-functional team, fostering a collaborative and results-driven culture
- Oversaw product development from concept to launch, bridging the business and tech side

Undergrad Outreach Assistant for CS

Jun 2023 - Aug 2024

Carnegie Mellon University

Doha, QA

- Assisted in teaching computer science concepts, providing support during lectures
- Debugged code and guided students through troubleshooting
- Mentored students in programming, offering 1-1 guidance

VIK Admin/Coordinator

Sep 2022 - Dec 2022

Coca Cola

Doha, QA

- Supervised and led a team of workers, delegating tasks to ensure branding maintenance, and timely deliveries.
- Performed data analysis on inventory and logistics, tracking data using Excel

PROJECTS

Schedule Genius | *Python, fastAPI, Svelte, JavaScript, Git*

May 2024 - Present

- Developed a full-stack web application using fastAPI serving a REST API with Svelte as the frontend
- Designed an intuitive UI allowing students to visualize course options and easily filter out possible semesters
- Utilized FastAPI for efficient backend processing, enabling real-time data handling for course options

Memory Allocator | *C, Git*

Nov 2023 - Nov 2022

- Developed a memory allocator using Least Recently Used (LRU) eviction policy and doubly linked free lists
- Improved memory utilization from 40% to 80%, optimizing how memory blocks are allocated and de-allocated.
- Achieved high throughput by optimizing allocation, minimizing fragmentation, and ensuring fast memory access

Slick IRC | *Python, QT, Git*

Nov 2021 - Dec 2021

- Developed an IRC client in Python, supporting modern IRC servers and multiple concurrent channels.
- Integrated support for modern IRC extensions, enabling features like nickname authentication, registration
- Developed a responsive user interface, that was resilient and failsafe given uncertain network conditions

TECHNICAL SKILLS

Languages: Java, Python, C/C++, Golang, JavaScript, HTML/CSS, Dart, Prolog, Haskell

Frameworks: Svelte, Node.js, FastAPI, Tkinter, QT

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Unix, Nginx, Postman, Vim

Communication: English (native)