

Omar Sinan

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EDUCATION

Carnegie Mellon University

Bachelor of Science in Computer Science, Minor in Information Systems

Aug. 2017 – May 2021

- **Courses:** Computer Systems, Distributed Systems, Embedded Systems, Database Applications, Functional Programming, Parallel Data Structures, Machine Learning, NLP, Database Design & Dev., App Design & Dev.

EXPERIENCE

Software Engineer

Jun. 2023 – Present

Qatar Computing Research Institute

- Designed and developed features for full stack applications across multiple projects using a modern tech stack
- Implemented and maintained a data cleaning pipeline for an in-house Large Language Model (LLM)
- Led the development of a metrics dashboard utilizing Grafana and Prometheus for real-time monitoring
- Collaborated with clients to understand their requirements and customized our solutions to meet their needs

Software Engineer

Jan. 2021 – Mar. 2023

Avey

- Developed the backend for an Instagram-like stories feature with more than 10k user interactions
- Led backend development for user forums feature from scratch inside the app to increase user retention
- Built a middleware program to synchronize the database with leading partner hospitals in the country
- Programmed and wrote documentation for the backend of a database analytics engine with over 50 metrics

iOS Developer Intern

Mar. 2019 – Aug. 2019

EButer

- Integrated an online payment system by adhering to API spec. and ensuring compliance with industry standards
- Streamlined the ordering process for users resulting in 39% of new orders opting for online card payments
- Enhanced the UI and UX of the app using Swift and added an onboarding screen for new users, increasing retention

PROJECTS

Streaks | *Swift, Node.js, Firebase, Git*

iOS Application

- Created a task manager that enhances study/work motivation through gamification aspects like leaderboards
- Implemented in Swift with a Node.js cronjob to monitor and manage users' streaks, updating them via Firebase
- Deployed a private beta of the app on TestFlight with over 20 active daily users

Stock Checker | *Python, Django, Telegram API, Twitter/X API, Git*

Web Application/Bot

- Developed a Django dashboard to monitor and manage real-time changes in product availabilities
- Utilized asyncio to concurrently execute all checks, efficiently processing over 50 items in under 2 seconds
- Deployed using Telegram and Twitter/X as platforms to post updates to stock changes

Sudoku Online | *SwiftUI, Firebase, Git*

iOS Application

- Developed an interactive app allowing two players to play Sudoku competitively in real-time
- Built the app using SwiftUI and integrated Firebase for communication and storage capabilities
- Optimized the Sudoku generation algorithm to accommodate varying levels of difficulty

ACHIEVEMENTS

- Graduated with University Honors and awarded Dean's list in 2019, 2020, 2021
- Achieved 2nd place out of 35 teams in an ICPC Bootcamp for competitive programming challenges
- Awarded the bronze medal at the iGEM competition for a project presented at the iGEM conference in Boston

SKILLS

Languages: Python, Swift, C/C++, JavaScript, PHP, SQL, HTML/CSS

Libraries & Frameworks: Django, Flask, Ruby on Rails, FastAPI, React, jQuery, Next.js, Express.js

User Interface Design: Figma