Nabil Khalil

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EDUCATION

University of California, Riverside   *Graduation Date: December 2024*

- B.S. Computer Science, 3.92 GPA
- **Relevant Coursework:** Data Structures & Algorithms, Information Retrieval, Design of Operating Systems, Computer Security, Database Management Systems, Algorithm Engineering, Compiler Design, Computer Architecture Design
- **Honors:** Chancellor's Honor List, Dean's Honor List

TECHNICAL SKILLS

Languages: C++, C, Java, Python, TypeScript, JavaScript, Bison, x86 Assembly, Latex
Technologies: Node.js, Django, Docker, AWS, React Native, JavaFX, JestJS, WebDriverIO
Databases: MySQL, MongoDB, Firebase

WORK EXPERIENCE

Microsoft   *June 2022 - September 2022*
SWE Intern

- Developed Windows Switch control using React Native and Typescript.
- Created a Menu-Picker control replacement for the Windows, Macos, iOS, and Android controls tester applications.
- Implemented unit and E2E tests for controls and theming utility using JestJS and WebDriverIO.

Microsoft   *June 2021 - August 2021*
Explore Intern

- Developed a cross platform tabs control for the FluentUI React Native (FURN) component library with React Native and Typescript.
- Implemented a wiki to increase contribution efficiency to the FURN github repository.

UCR Unmanned Aerial Systems   *February 2021 - April 2021*
Backend Developer

- Configured an Ubuntu Server to host the organization's website using Docker.
- Created an RSVP form integrated with Google Spreadsheets and Mailchimp using Node.js.

PERSONAL PROJECTS

Cafe Chill   *August 2020 - September 2020*

- Created a website using ReactJS that allows users to listen to Lo-fi music while chatting.
- Used the Spotify API with a Django back-end to synchronize music with all listeners.
- Chat developed with Django Channels using the websocket protocol.
- Managed user data with MongoDB.

Audio Visualizer   *July 2020*

- Created a desktop program, in C++ using SFML, that creates a visualization of the amplitude and frequency of a song as it plays.
- Quickly computed the spectral density of an MP3 file using the Cooley-Tukey FFT algorithm.