

Hieu Nguyen

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EDUCATION

University of Florida - The Herbert Wertheim College of Engineering

Bachelor of Arts in Computer Science

Gainesville, FL

Aug. 2023 – May 2027

PROJECTS

Chess App | *Typescript, React.js, Rust, WebAssembly, Websockets, Tailwind*

- Developed a full-stack web application using Rust on the backend and React on the frontend
- Implemented Websockets to enable users to play chess in real-time
- Created a custom drag and drop implementation to ensure a smooth playing experience
- Integrated WebAssembly to communicate with the Rust chess library

Chess Library | *Rust*

- Developed a chess engine in Rust using the 0x88 algorithm
- Implemented Github Actions to ensure the package is tested thoroughly upon a new release
- Integrated with WebAssembly to work with Javascript web app, resulting in 10% faster performance

Form Builder | *Next.js, React.js, Typescript, Firebase*

- Developed a web app that enable users to create online forms
- Communicated with Firebase API to store user data and enable real-time changes
- Implemented Cypress for integration testing

Tasks Manager | *Rust*

- Developed a task manager app in the terminal to boost productivity using Ratatui
- Communicated with Github API to fetch issues in a repository and store as tasks to complete

INVOLVEMENT / EXTRACURRICULARS

Florida Rocket Lab - Avionics Team

University of Florida

Present

Gainesville, FL

Open Source Club

University of Florida

Present

Gainesville, FL

Society of Software Developers

University of Florida

Present

Gainesville, FL

Sport Counselor

Pensacola Sports

June 2022 – July 2022

Pensacola, FL

- Organized and led a variety of drills to teach children ages 5 to 12 how to play soccer and tennis
- Collaborated with peers and coaches to ensure activities run smoothly

Ronald McDonald House

Volunteer

May 2021 – July 2022

Pensacola, FL

- Provided front-desk reception for customers
- Cleaned rooms and equipment, and cooked for families staying at the house.

TECHNICAL SKILLS

Languages: Javascript, Typescript, Python, Rust, SQL (Postgres), Lua, HTML/CSS

Frameworks: React, Next.js, Node.js, Express.js, Vue.js, Tailwind, Redux, Actix

Developer Tools: Git, Github, Docker, Github Actions, VS Code, PyCharm, Figma, Trello, Jira, Postman, Digital Ocean

Certifications: Microsoft Technology Associate - Introduction to Programming using Java, Microsoft Technology Associate - Software Development Fundamentals, Information Technology Specialist - Databases, Information Technology Specialist - Python

Language Skills: English and Vietnamese