Ali-reza Manizani

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EDUCATION

University of California Irvine, Donald Bren School of Information and Computer Science Irvine, CA September 2022 - June 2024
BA in Informatics
GPA: 3.5

- **Related Coursework:** Data Structure Implementation and Analysis, Programming in Java, Programming in C/C++ as a Second language, Data Retrieval and Database implementation, UI/UX Design and Implementation.

Los Angeles Pierce College, Woodland Hills, CA August 2020 - June 2022
AS in Mathematics | AA in Stem for Transfer | AS in Arts and Sciences
GPA: 3.70

- **Related Coursework:** Object Oriented Programming, Differential Equations, Linear Algebra, Intro to Data Structures, Programming in C++

WORK EXPERIENCE

Kadoux LLC March 2023 – Present
Software Engineer *Remote*

- Used NextJs 14 to build reusable UI components.
- Used Tailwind to style the pages.
- Used Typescript for better testability.
- Used Python to ingest data from various spreadsheets and databases and to build a Solr based search index for the data.

BioDot September 2023 – March 2024
Software Engineering Intern *Irvine, CA*

- Designed and developed an intuitive .NET interface for a syringe dispenser, enhancing user interaction and machine control. Mainly focused on the use of C++ and Python.
- Collaborated across teams to gather requirements and incorporate user feedback, resulting in a user-centric syringe dispenser solution developed using HTML, CSS, JavaScript, and Python.

Open Energy Dashboard January 2024 – February 2024
Open Source Contributor *Remote*

- Successfully contributed to the Open Energy Dashboard, a user-friendly way to display energy information from smart energy meters or uploaded via CSV files.
- Developed testing mechanisms using JavaScript testing software Mocha and Chai to compare computed results to API-acquired results, resulting in a 50% increase in accuracy.

PROJECTS

Project CIPHER(2024) Developed in collaboration with Raytheon, Project CIPHER is an AI-powered cybersecurity chatbot designed to streamline decision-making for cybersecurity professionals. Leveraging Retrieval Augmented Generation (RAG), the chatbot references data from the open-source threat intelligence platform MISP. The project involved creating an RAG model to process queries and generate accurate responses using Python and MERN stack technologies.
Search Engine(2024) Implemented custom-designed data structures to create an inverted index for efficient document retrieval using Python. Utilized advanced programming skills to handle large datasets and optimize search performance. Enhanced search result rankings through tf-idf scoring and incorporation of importance recognition.
PCPartPicker(2024) Designed and developed an intuitive web application using Flask, Python, and React. Implemented a URL-based price-checking feature to provide users with real-time pricing information. Managed project lifecycle from conception to deployment, ensuring timely delivery and adherence to specifications.

SKILLS, TECH AND INTERESTS

Skills: React.js, JavaScript, TypeScript, Python, Tailwind, Next.js, HTML, CSS, C++, Git, Node.js, Visual Studio, Angular, interpersonal skills, machine learning, MongoDB, Agile
Interests: Tech, Gaming, Construction, Code Testing, Building Computers, Volleyball.