

John CuvIELLO

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EDUCATION

University of California Irvine

Bachelor of Science in Computer Science, GPA: 3.3

Irvine, CA

June 2022

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, HTML, CSS

Frameworks: React, Node, Express, Jest, Flask, Next

Developer Tools: Git, MySQL, PostgreSQL, MongoDB, Linux

Libraries: pandas, NumPy

RELATED EXPERIENCE

Knowde

January 2022 – June 2022

Software Engineering Capstone

Irvine, CA

- Developed pipeline using **Python** and **Flask** to automate manual data extraction from chemical PDF documents
- Hastened parsing time by **83%** from **100+** PDF documents weekly, empowering engineers to prioritize key tasks
- Employed **numPy** and **pandas** to clean data, mitigating error-related expenses and enhancing customer trust
- Collaborated on a team of five using Jira to allocate tasks and peer reviews to improve efficiency and code quality
- Communicated weekly with the CTO and chemical engineers to track progress and receive feedback

PROJECTS

Cooldown: Full-stack Journal App | *React, JavaScript, Node, Express*

March 2023 - Present

- Constructed interactive and responsive front-end using **React** to improve user experience across devices
- Developed a REST API with **Node** and **Express** to flexibly handle data and communicate with the front-end
- Authenticated users with JSON Web Tokens and password hashing to secure data and sync cross-platform
- Implemented user searching on external API, allowing users to personalize journals with images and data
- Applied end-to-end, integration, and unit testing with **Cypress** and **Jest** to ensure functionality and quality

Jeanie: Full-stack E-commerce App | *React, TypeScript, NextJS, Stripe, Firebase*

August 2023

- Crafted an appealing front-end to navigate, filter, and sort products with **React** and **Tailwind CSS**
- Utilized **NextJS** for data fetching, routing, and server-side rendering for improved performance and SEO
- Stored data for 100+ products and images using **Firestore** and **Firebase Cloud Storage** for scalability
- Processed user purchases and customer data securely using the **Stripe** API along with **Firebase Auth**

Bapple: Web Crawler and Search Engine | *Python, Flask, JavaScript, HTML, CSS*

January 2022

- Crawled and scraped thousands of UCI web pages using **Python** and **BeautifulSoup**
- Accelerated query speed with an inverted index consisting of tokenized, stemmed, and weighted text
- Optimized result precision using term frequency scores (tf-idf) and HTML tag processing
- Achieved accurate search results with a query time under **300 milliseconds**