

JOSHUA DE CHAVEZ

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EDUCATION

University of California, Irvine - Bachelor of Science, Informatics **March 2024**
Programming Coursework: Data Structures, Information Retrieval, Software Testing & Quality Assurance, Data Management

TECHNICAL SKILLS

Frontend: ReactJS, Next.js, React Native, Bootstrap, Tailwind, Angular, HTML, CSS, JavaScript
Backend: C#, C++, Python, Java, Node.js, Express, Flask, ASP.NET, MySQL, NoSQL, PostgreSQL, MongoDB, REST APIs
Developer Tools: AWS, Microsoft Azure, JUnit, Docker, Figma, Git

EXPERIENCE

Think Magnificent **May 2024 - August 2024**
Software Engineer Intern Rolling Hills Estates, CA

- Developed a scalable **Next.js** app with **TypeScript**, **Tailwind**, and serverless functions, creating a robust **REST API**
- Utilized the **Google Drive API** and **GCP Cloud Storage** for secure and efficient management of personal user videos
- Used **session caching**, **refresh tokens**, **data encryption**, and **Redux**, enhancing security and user experience
- Utilized **PostgreSQL** to manage user, video, and question data, ensuring data integrity and reliability

Independent Contractor **April 2024 - June 2024**
Full Stack Developer Irvine, CA

- Created a website for Dr. Miles J. Pfaff using **Next.js**, **JavaScript**, and **Tailwind** for microtia and ear surgery content
- Hosted the site on **Microsoft Azure** utilizing an **ASP.NET** framework, ensuring scalability, reliability, and security
- Implemented **SEO tactics** to boost website visibility and rankings, increasing organic traffic and online presence

CHOC Children's **September 2023 - April 2024**
Software Engineer Intern (Part Time) Irvine, CA

- Developed with Kaspect, a speech-tracking iOS app in **Unity** with **C#** for patient speech therapy at CHOC Children's
- Led **Python** script development for video-to-wav conversion, parsing, and speaker-based analysis using diarization
- Analyzed data with **ML models** (Lipnet, wav2vec2), improving integrity by **20%** and generating audiovisual reports
- Created spectrograms, Fast Fourier Transforms (FFTs), and vowel spacing visualizations to aid patient speech therapy

Vape & Co. **December 2022 - March 2023**
Web Developer Irvine, CA

- Contracted to develop an E-commerce website using **HTML**, **CSS**, and **Liquid**, resulting in a **18%** increase in sales
- Leveraged stakeholder feedback to design high-fidelity wireframes using **Figma**, improving user interaction by **13%**

PROJECTS

Scam Scanner | Next.js, Tailwind, Flask, Python, AWS S3, Claude 3.5 Sonnet, HumeAI, Groq **June 2024**

- Created a Next.js web application to detect and prevent scam calls, winning **2** awards from UC Berkeley AI Hackathon
- Utilized Flask for API requests, integrating Groq, Llama 3, and Hume AI to analyze voice data to find scam patterns
- Leveraged Claude AI for advanced language understanding and contextual analysis, alongside AWS S3 for data storage

Moxy | ReactJS, React Native, C#, ASP.NET, PostgreSQL, REST API, Microsoft Azure **March 2024 - Present**

- Developed a React Native social media app for both iOS and Android, utilizing Echo for cross-platform compilation
- Employing SQL, SSMS, and ASP.NET Core REST API for data retrieval, while developing a ReactJS client version
- Deployed Azure for hosting, orchestrated a distributed system, and integrated GitHub Actions for our repositories

Anteater Pathways | ReactJS, Javascript, MongoDB, REST API **March 2022 - June 2022**

- Designed a course planner using Figma and UI/UX principles, then developed its ReactJS front-end in an Agile team
- Implemented a MongoDB-powered web crawler to optimize data retrieval, achieving a **50%** decrease in retrieval time
- Integrated REST API endpoints of a web crawler to fetch and populate up-to-date course information