

# Sohan Kancherla

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## Education

### University of Illinois Urbana Champaign

Master of Science, Computer Science

August 2019 - May 2023

GPA: 3.78

### Arizona State University

Bachelor of Science, Computer Science

August 2023 - Present

GPA: 3.83

### University of California Berkeley

Certification, Certificate in Machine Learning and AI

July 2023 - December 2023

## Work Experience

### Graduate Full-Stack Engineer Intern

December 2023 - Present

Intel Corporation

- Spearheaded the migration from a monolithic architecture to a microservices-based architecture for dashboard applications, transitioning from Dash by Plotly to a modern stack using **TypeScript**, **React**, **Vite**, and **Tailwind CSS**. This improved frontend stability, reducing bugs by 300%, and received very positive customer feedback.
- Created a reusable template codebase for frontend applications with custom **React** components built using **Shadcn UI**, resulting in a 200% faster product release cycle.
- Developed a Frontend Application used by customers to view and explore our tools, make requests for new features, and include feedback with an additional admin application for internal team members to track request progress and assign to team members.
- Implemented a new **CI/CD** pipeline utilizing **Docker**, **Kubernetes**, and **GitHub actions** to host applications on an improved compute cluster. This provided manual scalability control, improved performance by 100%, and reduced deployment time from 15 minutes to 5 minutes.

### Graduate Machine Learning Engineer Intern

August 2023 - October 2023

Encyclopedia Britannica

- Fine-tuned a **Zero-shot classification model** from Hugging Face with an additional **Elasticsearch** cosine similarity layer, which enhanced the relevancy of suggested news articles by 40%

## Personal Projects

### Pixolve

Pixolve is an open-source API that offers AI-powered tools for image processing, along with a dedicated frontend UI. It currently includes two key features: Merge and Clean. The Merge feature combines similar images, selecting the best face for each individual, while the Clean feature groups images and assigns them a score out of 10. Users can then download images based on the score. For a demo and instructions on how to set it up, please visit the GitHub repository.

Tools: **React**, **Typescript**, **Tailwind CSS**, **Shadcn UI**, **Next.js**, **Authentication**, **Auth0**, **Python**, **FastAPI**, **REST APIs**, **JWT**, **Docker**

Frontend Repo: <https://github.com/sohankancherla/pixolve-web>

Backend Repo: <https://github.com/sujen07/pixolve-api>

## Skills

HTML, CSS, JavaScript, TypeScript, Tailwind CSS, React.js, Next.js, Node.js, Express, Python, Flask, REST APIs, Auth0, JWT, SQL, NoSQL, MongoDB, Postgres, Prisma, Git, Docker, Kubernetes, CI/CD, AWS, EC2, Lambda, ECS, ECR, Vercel, Elasticsearch, Linux/Unix, Data Structures & Algorithms, Agile, Java, C, C++, Natural Language Processing (NLP), LLM, Neural Networks