

# Abhinav Uppala

916-836-7880 | [abhinav.uppala@gmail.com](mailto:abhinav.uppala@gmail.com) | [linkedin.com/in/abhinav-uppala](https://linkedin.com/in/abhinav-uppala) | [github.com/abhinavuppala](https://github.com/abhinavuppala)

## EDUCATION

### University of California, Irvine

Irvine, CA

Bachelor of Science - Computer Science

2023 - 2027

- GPA: 3.7/4.0, Dean's Honor List, Undergraduate Research

## PROFESSIONAL EXPERIENCE

### Full Stack Engineer Intern

Jul. 2025 - Present

N2N Services Inc.

Duluth, GA (Remote)

- Supporting N2N's flagship product Illuminate using Java, Spring, Vue.js, providing end-to-end REST API integrations for higher institutions.

### Applied ML Researcher

Aug. 2024 - Present

UC Irvine Health SciTech Group

Irvine, CA

- Developed a modular data pipeline for preprocessing, analyzing, and visualizing various types of data, enhancing data accessibility and insights for research projects.
- Improved research efficiency by integrating an LLM-based healthcare agent to automate data handling workflows via natural language prompts, simplifying data engineering for researchers.

### Coding Instructor

Jan. 2023 - Aug. 2023

Code Ninjas

Folsom, CA

- Mentored over 200 students in game development curriculum using Python, JavaScript, Unity/C#, Lua.
- Facilitated Python Club, which taught 10+ students competitive programming concepts in Python.

### Software Engineering Intern

June 2022 - Aug. 2022

Intel Corporation

Folsom, CA

- Developed a system management portal using Python, consolidating diagnostics for over 100 test benches running benchmarking software in more than 5 Intel offices across the U.S., leading to a 75% reduction in downtime.
- Built a command-line version allowing for future automation, such as auto-rebooting systems upon crashing.

## PROJECTS

### TelescopeML [🔗](#) | *Tensorflow, Scikit-learn, Streamlit, Pandas, Numpy*

- Implemented unsupervised learning techniques with PyTorch to cluster & analyze brown dwarf spectra.
- Developed Streamlit web demo showcasing models, allowing users to train, visualize, upload & save each model.
- Contributed to open-source project [TelescopeML](#) [🔗](#) as an alternative to existing CNN model, in a 1 week deadline.

### Crop Guard [🔗](#) | *React.js, FastAPI, PostgreSQL, TypeScript, Next.js, PyTorch, Tailwind*

- Collaborated on fullstack web app that classifies plant diseases given an image using a fine-tuned ResNet, and provide users with descriptions & treatments for these diseases with Google's Gemini-1.5 LLM.
- Implemented user login and data visualization from prior prompts, revealing long-term plant disease trends.

### Diffusion Emoji Generator [🔗](#) | *React.js, FastAPI, TypeScript, Next.js, PyTorch, Tailwind*

- Developed a full-stack web app with a team of 4 to generate custom emoticons from a written prompt.
- Tuned diffusion model on 3k+ emojis, iteratively removing noise from an image until it resembles the prompt.

### Song Hangman [🔗](#) | *Flask, JavaScript, Bootstrap, HTML/CSS*

- Deployed fullstack web app where users can play hangman with songs from chosen artists using Spotify's web API.
- Implemented responsive UI and utilized cookies to cache API results for over 80% faster load times.

## SKILLS

**Programming Languages:** Python, JavaScript, C++, TypeScript, Java, SQL, HTML/CSS

**Frameworks & Tools:** React.js, FastAPI, Amazon Web Services (AWS), Docker, PostgreSQL, Spring, AWS

DynamoDB, AWS EC2, Next.js, Vue.js, Git, Tailwind, PyTorch, TensorFlow, pandas, numpy, Flask, REST APIs, LLMs

## ABOUT ME

**Interests:** Video Games, Cooking, Music, Weightlifting, Traveling

**U.S. Citizen**