Guntash Gill

913-804-7132 | gillguntash7@gmail.com | LinkedIn | GitHub

SUMMARY

Full-stack software engineer experienced in building scalable, user-centric applications using **React**, **Node.js**, and **REST APIs**. Skilled in deploying to cloud platforms including **AWS**, **Azure**, and **GCP** with **CI/CD** automation via **GitHub Actions**. Strong foundation in systems design, DevOps, and data-driven development within Agile teams.

EDUCATION

University of California Santa Barbara   Santa Barbara, CA
Bachelor of Science in Computer Engineering   *Sep. 2022 – 2026 (expected)*
- Computer Science Problem-Solving, Object Oriented Design, Digital Design Principles, Computer Architecture, Deep Learning, Foundations of Circuitry, Logic Design, Data Structures and Algorithms, Game Theory, Artificial Intelligence

EXPERIENCE

AI Research Intern — DIY-MKG Project   July 2025 – Nov 2025
REAL AI Lab, UC Santa Barbara   *Santa Barbara, CA*
- Engineering **DIY−MKG**, an open-source LLM-powered language learning system for multilingual vocabulary acquisition
- Developing personalized knowledge graphs via LLM-driven expansion and integrating adaptive quiz modules with real-time feedback
- Collaborated with PhD researchers to evaluate multilingual vocabulary expansion and adaptive reviewing
- Achieved reliable vocabulary growth of 3,000 words per language over 500 iterations, with **98%** quiz accuracy for multiple-choice and **76–84%** for fill-in-the-blank

Web & Mobile Development Intern   May 2025 – August 2025
XPS - Xdecoders Programming Services Pvt. Ltd.   *Remote*
- Collaborating in a high-velocity Agile environment to build and refine responsive web and mobile applications for diverse international clients
- Contributing clean, scalable code using **HTML**, **CSS**, and **JavaScript**, while implementing pixel-perfect UI/UX improvements across platforms
- Actively participating in feature planning, code reviews, and QA testing cycles to ensure cross-browser functionality and consistent mobile responsiveness

Web Developer   October 2024 – December 2024
C.H.I Logistics   *Fresno, CA*
- Developed mobile-friendly website (chilogisticinc.com) using **React** and **Node.js**, enhancing the company's online presence and branding
- Integrated real-time forms for job applications and inquiries, streamlining the recruitment process and improving UX
- Increased job applications by over **20%** within one month through improved visibility and conversion-focused design
- Automated deployments with **AWS** and **GitHub Actions** to support rapid iteration and uptime

Full Stack Developer Intern   June 2024 – September 2024
IPMD, Inc.   *Remote*
- Led backend development of a financial analytics platform, creating secure **SQLite** schemas and authentication flows for tracking stock data and user sessions
- Integrated **Google Cloud** and **Azure** services to deploy scalable backend APIs and host production-ready frontend builds
- Engineered data ingestion pipelines and implemented financial indicators (e.g., **SMA**, **stochastic oscillator**) to generate investment insights
- Boosted application reliability and scalability through modularization and API refactoring, supporting 1000+ concurrent stock records per query

Web Developer & Graphic Designer   April 2024 – June 2024
2 For 1 Pizza House   *Fresno, CA*
- Developed the restaurant's website (2for1pizzahouse.us) using **React** and **Node.js**, resulting in a **34% increase in online sales** within weeks of launch
- Implemented a custom backend dashboard for real-time menu edits, enabling staff to manage content without developer support
- Optimized user flows and mobile responsiveness, driving customer engagement and online ordering efficiency

PROJECTS

Air-Traffic-Simulation | *PyGame, Reinforcement Learning, A* Pathfinding, TensorFlow*
- Simulated a network of autonomous delivery drones navigating a dynamic city map using **PyGame** and real-time positional feedback
- Applied reinforcement learning (**Q-learning**) to optimize routes, outperforming traditional A* by reducing delivery latency by 35%
- Designed an energy management framework with smart charging logic, maintaining 99% drone uptime across multi-hour simulations

PC Builder Agent | *Python, LLMs (OpenAI / Ollama), Pydantic*
- Built an AI agent that translates workload and budget constraints into validated PC build recommendations
- Implemented a plan–validate–revise loop combining generative planning with deterministic compatibility checks to ensure feasible configurations
- Designed a modular architecture separating reasoning, validation, and explanation to improve reliability and extensibility

TECHNICAL SKILLS

Languages: Python, C/C++, HTML/CSS, JavaScript, Verilog

Web/Frameworks: React, Node.js, Flask, SQLAlchemy, **Pydantic**, TensorFlow, Jinja2, Sigma.js

Cloud & DevOps: AWS, Azure, Google Cloud, GitHub Actions, CI/CD, REST APIs

Tools: Git, GitHub, VS Code, Postman, Figma, LLM APIs (OpenAI, Ollama) **Data/Analysis:** Pandas, Matplotlib, SQLite, Arduino, FPGA, KiCad, Logisim