Dylan Vidal

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Education

University of Central Florida, Burnett Honors College — Orlando, FL
Bachelor of Science in Computer Science; Minor in Robotics and Data Science — *Aug 2023 – May 2027*

Experience

President — Feb 2024 – Present
Knight Hacks — *Orlando, FL*

- Managed a non-profit organization with **500+** members and **$40,000** dollars in yearly revenue focused on creating confident, capable, and passionate developers.
- Organized the Knight Hacks VII Hackathon for over **1500+** registrants and **547** attendees, with a total of **94** projects submitted.
- Led a team of **45** students to achieve deliverables such as **60** technical workshops a year and **100+** member mentorship.
- Revamped the mentorship program, expanding the number of participants by **58%** compared to previous school year.
- Personally secured nearly **$25,000** for the organization by networking with numerous **Fortune 500** companies over 2 years.

Software Engineer Intern — May 2025 – Present
NVIDIA — *Santa Clara, CA*

- Contributed to the autonomous hardware recovery team for **NVIDIA Mission Control**, the software layer for AI factories.
- Developed a log analysis pipeline that automatically identified and filtered noisy logs, reducing time-to-debug by **60%**.
- Leveraged fine-tuned Llama models to generate **semantic embeddings** for clustering and identifying noisy log patterns.
- Engineered a daily **CRON** service to generate noisy log reports and grep pattern files, streamlining daily debugging tasks.
- Integrated with real-time **Loki** logs from **Grafana**, and automatically published log anomalies to **Confluence** and **Slack** for immediate developer visibility.

Software Engineer Intern — Dec 2024 – Apr 2025
Pheratech Systems — *Orlando, FL*

- Developed an internal inventory management system, reducing unnecessary wasteful restock purchases by **40%**.
- Trained custom **YOLOv8** object detection models with a resulting **97%** accuracy in recognizing target objects.
- Aided in securing pre-seed funding by contributing to multiple high-impact technical projects across the company.

Projects

Visuworld AI | *React, Next.js, Tailwind, FastAPI, MongoDB, GLSL, Three.js, Google Gemini* — *Apr 2024 – Present*

- **1st place winner** out of **97** projects for the **Best Use of Google Gemini Award** at Bitcamp 2025.
- Invented a novel pipeline for 3D scene generation by prompting **Google Gemini** to produce **OpenGL GLSL** code.
- Parsed and rendered GLSL shader code in a **React** interface using **Three.js** and **WebGL** to display generated 3D environments.
- Built a public-facing gallery of generated environments by storing code snippets in **MongoDB**.

Voiceboard AI | *React, Next, tRPC, TypeScript, Google Gemini, Speech Detection, Mermaid* — *Sep 2024*

- **1st place winner** out of **146** projects for **Google's Hack for Social Good Challenge** at Shell Hacks 2024.
- Advocated for engineers with physical disabilities by creating voice-to-diagram technology to make technical communication more accessible.
- Utilized the native **Chromium Web Speech Recognition API**, boosting performance by **70%** over server-side alternatives.
- Leveraged the **Google Gemini API** to transform plain text into renderable **Mermaid** syntax for diagrams.

Lootcode | *React, Next, Tailwind, SQL, tRPC, TypeScript, Zx, Docker, Linux* — *Feb 2024 – May 2024*

- **1st place winner** of the Knight Hacks Spring 2024 Projects Program.
- Featured on **Linux Magazine for Free Open Source Software** after reaching **50,000** page visits and **500** monthly active users.
- Engineered a secure code-grading server and IDE using isolated **Docker** containers to mitigate security vulnerabilities.
- Self-hosted the full-stack application on a **Linux VPS** with a custom **CI/CD** pipeline for reliable deployment and uptime.
- Authored over **75** data structures and algorithms problems across various topics and difficulties.

Technical Skills

Programming Languages: Python, C#, C++, C, Java, HTML, CSS, JavaScript, TypeScript, SQL
Libraries/Frameworks: React, Next, Tailwind, tRPC, Prisma, Drizzle, NextAuth, pandas, numpy, PyTorch, scikit-learn, Qt, LangChain, Gemini, ADK, Pyside6, Selenium, Nextcord, Tkinter, Pygame
Tools/Platforms: Windows, Linux, MacOS, Docker, Coolify, Vercel, Node, Bun, pnpm, Jupyter Notebooks, GitHub, Raspberry Pi