Dylan Vidal

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EDUCATION

University of Central Florida   Orlando, FL
Bachelor of Science in Computer Science   *Aug 2023 – May 2026*

EXPERIENCE

President   Feb. 2024 – Present
Knight Hacks   *Orlando, FL*
- Managed a non-profit organization with **500+** members and **$40,000** dollars in yearly assets focused on creating confident, capable, and passionate developers.
- Organized the Knight Hacks VIII Hackathon for over **1500** registrations and **547** attendees, resulting in **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 members by **58%** compared to previous school year.
- Fund-raised nearly **$15,000** for the Hackathon by networking with numerous Fortune 500 companies.

Co-founder & CTO   Apr. 2024 – Present
DormDevs LLC   *Orlando, FL*
- Empowered businesses with powerful insights and uplifted college students with contracted work opportunities.
- Developed a business-facing dashboard with real-time analytics, billing, and a ticketing system to support **5** partner businesses.
- Developed internal payment systems for **2** restaurants resulting in a **27%** decrease in expenditures to DoorDash and UberEats .
- Managed a team of contracted freelance developers sourced from local colleges and universities.
- Architected customized infrastructure using open source alternatives to authentication, analytics, and databases, reducing company costs by **70%**

Research Assistant   Mar. 2024 – Aug. 2024
UCF Computational Bioinformatics Laboratory   *Orlando, FL*
- Reduced the runtime of the laboratory pipelines by **75%** through leveraging concurrency and parallelism in Python.
- Assisted in data collection, sanitization, and transformation using libraries like pandas and numpy.
- Researched Machine Learning solutions for cancer detection identification with RNA sequencing.

PROJECTS

Voiceboard AI | *React, Next, tRPC, TypeScript, Google Gemini, Speech Detection, Mermaid*   Nov. 2023 – Jan. 2024
- **1st place** of **146** submitted 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 communicating technical concepts accessible.
- Utilized the native **Chromium Browser Speech Recognition API** to increase performance by **70%** compared to server-side speech recognition.
- Leveraged the **Google Gemini API** to transform plain text prompts into **Mermaid** syntax to be parsed and rendered.

Lootcode | *React, Next, Tailwind, SQL, tRPC, TypeScript, Zx, Docker, Linux*   Feb. 2024 – Present
- **1st Place** Winner of Knight Hacks Spring 2024 Projects Program.
- Featured on Linux Magazine for Open Source Software after serving **500** monthly active users with **350** hours of play time.
- Designed a secure code-grade server and IDE experience using isolated Docker environments to reduce security vulnerabilities.
- Self-hosted infrastructure on a Linux VPS with a CI/CD script for reliable deployment, uptime, and extensibility.
- Authored over **75** DSA-style problems across various topics and difficulties.

Knight Hacks Monorepo | *Turbo, React, Next, Discord.js, Cloudflare, CRON, SQLite*   Jul. 2024 – Present
- Compiled a list of useful commands into a Discord bot deployed to the Knight Hacks Discord server with **3,500+** members.
- Engineered a new tooling architecture to handle future hackathon registrations, increasing DX by **80%** and developer efficiency by **90%**
- Wrote an algorithm which filtered and validated event data for automated announcements increasing event attendance by **40%**
- Designed a user-based QR system to make event check-in **67%** faster and automate collection of event metrics.

TECHNICAL SKILLS

Programming Languages: Python, C#, C++, C, Java, HTML, CSS, JavaScript, TypeScript, SQL
Libraries/Frameworks: React, Next, Tailwind, tRPC, Prisma, UploadThing, Upstash, KindeAuth, ClerkAuth, LuciaAuth, Qt, LangChain, Pyside6, Selenium, Nextcord, Tkinter, Pygame, openpyxl, pandas
Tools/Platforms: Windows, Linux, Vercel, Node, Bun, Qt Creator, GitHub, Inno Installer, Raspberry Pi, VSCode, Code::Blocks