

Dylan Vidal

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EDUCATION

University of Central Florida

Bachelor of Science in Computer Science

Orlando, FL

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 600 attendees.
- 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.
- Fundraised 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.
- Hosted and deployed open-source analytics, authentication, and database on a Linux VPS.
- Managed a team of contracted freelance developers sourced from local colleges and universities.
- Partnered with numerous companies of various sizes throughout central and south Florida.

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, Tailwind, tRPC, TypeScript, Gemini, Speech Recognition, 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 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 Bot | *Node, Discord.js, PM2, CRON, SQLite, Webhooks*

Jul. 2024 – Present

- Compiled a list of useful commands into a Discord bot deployed to the official Knight Hacks Discord server with 3,500+ members.
- Synchronized multiple instances of the bot concurrently to handle 700+ requests over a 1-hour check-in window.
- Wrote a custom CI/CD script that listens to GitHub webhooks and triggers procedural rebuilds and redeploys the bot.

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