Dylan J Vidal

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🎓 EDUCATION

University of Central Florida Aug 2023 – May 2026 | Orlando, Florida
Bachelor's Degree in Computer Science
- Activities: Burnett Honors College, Competitive Programming Team, Knight Hacks Software Development Club
- Classes: Data Structures I & II, Object Oriented Programming, C Programming, Calculus I-III
- GPA: 4.0

💼 EXPERIENCE

Co-founder & CTO | DormDevs LLC. Apr 2024 – Present | Orlando, Florida
- Empowered businesses with powerful insights and uplifted college students with contracted work opportunities.
- Developed a business facing dashboard with real time analytics, billing, and 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.

Secretary | Knight Hacks 🔗 Feb 2024 – Present
- Played a critical role in planning Knight Hacks 2024 Hackathon with over 750+ expected hackers.
- Informed UCF's software development club of 300+ members through social media and frequent community announcements.
- Orchestrated social events, ran numerous software development workshops, and raised money through partial proceeds events and company sponsorships.

Research Assistant | UCF Computational Bioinformatics Laboratory 🔗 Mar 2024 – present | Orlando, Florida
- Reduced the runtime of the AS-Quant and APA-Scan laboratory pipelines by 75% by 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

Lootcode | React, Next, Tailwind, SQL, tRPC, TS, Zx, Docker, Linux 🔗 Feb 2024 – Present
1st Place Winner @ Knight Hacks Projects Program
- Featured on Linux Magazine for Open Source Software after serving 1,000 monthly active users with 350 hours of combined play time.
- Designed a secure code-grade server and IDE experience using isolated Docker environments.
- Self-hosted our server and SQL database on a Linux VPS with a CI/CD script for reliable deployment and up-time.
- Authored over 75 DSA style problems across various topics and difficulties.

Wildspace Web | React, Next, TailwindCSS, SQL, tRPC, TS, LangChain 🔗 Nov 2023 – Jan 2024
Personal Project
- Constructed an AI-powered D&D world-building SaaS web application with 50+ users.
- Leveraged the power of OpenAI GPT and Dalle models using Langchain interfacing to create rich characters and stunning visuals.
- Enforced user-authentication and security using Kinde Auth and queried an SQL database for standard CRUD operations.

Knight Hacks Bot | Node, Discord.js, PM2, CRON, SQLite, Webhooks Jul 2024 – Present
Dev Team @ Knight Hacks
- Compiled a list of useful commands into a Discord bot deployed to the official Knight Hacks Discord server with 3,500+ members.
- Used node-CRON to retrieve and send the daily Leetcode challenge during recruitment season to help members learn DSA.
- Performed routine CRUD operations to a SQLite database to turn user involvement into a point-based, friendly competition.
- Wrote a custom CI/CD script that listens to Github webhooks and triggers procedural rebuilds and redeploys the bot commands.

{} SKILLS

- Programming Languages: Python, 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