Dylan J Vidal

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EDUCATION

University of Central Florida   May 2026
Bachelor's Degree in Computer Science
- Activities: Burnett Honors College, Knight Hacks Software Development Club
- Classes: Data Structures I & II, Object Oriented Programming, C Programming, Calculus I-III, Web UX, Game Programming
- GPA: 4.0

EXPERIENCE

President | Knight Hacks 🔗   Feb 2024 – Present
- Managed a non-profit organization with 500+ members and $40,000 dollars in yearly assets focused on creating confident, capable, and passionate developrs.
- Played a critical role in planning Knight Hacks 2024 Hackathon with over 700 attendees.
- Led a team of 45 students to achieve deliverables such as 60 technical workshops per school year and 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 Fortunte 500 companies.

Co-founder & CTO | DormDevs LLC.   Apr 2024 – Present
- 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.

Research Assistant | UCF Computational Bioinformatics Laboratory 🔗   Mar 2024 – Aug 2024
- 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 500 monthly active users with 350 hours of total play time.
- Designed a secure code-grade server and IDE experience using isolated Docker environments to reduce security vulnerabilities.
- Self-hosted server and SQL database on a Linux VPS with a CI/CD script for reliable deployment, up-time, and extensibility.
- 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 master DSA.
- Syncronized multiple instances of the bots 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 commands.

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