Daniel J Efres

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EDUCATION

University of Central Florida   Orlando, FL
Bachelor's Degree in Computer Science, Minor in Mathematics   *Expected Grad: May 2027*
- Honors/Awards: Dean's List Fall 2023, Dean's List Spring 2024, Dean's List Fall 2024
- Organizations and Affiliations: Knight Hacks, Society of Hispanic Engineers, ColorStack

EXPERIENCE

Software Engineering Intern   May 2025 – Aug 2025
BNY   *Lake Mary, FL*
- Joined the BNY Software Engineering team as an incoming intern.

Software Engineering Intern   Mar 2025 – Present
CDL Techrangers   *Orlando, FL*
- Developed and optimized web applications supporting 60,000+ students and faculty, leveraging React, Django, and Flask, while enhancing application performance through database query refactoring and caching strategies.
- Contributed to the Intelligent Course Search LTI, integrating PostgreSQL (vector databases), LTI standards, and OpenAI's GPT API, enabling course content indexing and LLM-powered video citation for user queries.

Secretary   Feb 2025 – Present
Knight Hacks   *Orlando, FL*
- Managed access credentials and led onboarding initiatives, ensuring seamless integration for 60+ members while coordinating event spaces and logistics with UCF Registrar for hackathons, workshops, and meetings.
- Led efforts to secure sponsorships from corporate partners, fostering long-term relationships to support Knight Hacks VIII and ensuring its success for 500+ attendees, including workshops, activities, and ceremonies.

PROJECTS

Kmodo | TypeScript, React, Next.js, Tailwind CSS, tRPC, Drizzle, PostgreSQL, Git   Jan. 2025 – Present
- Developing a hackathon management platform with role-based authentication for secure user access.
- Architecting scalable database schemas with Drizzle and PostgreSQL to handle high-volume data efficiently.
- Enhancing UI/UX with responsive design principles, improving accessibility and engagement.
- Optimizing backend queries and caching, reducing load times by 35% for a seamless experience.

Spark-A-Hack | TypeScript, React, Next.js, Tailwind CSS, tRPC, Git   Sep. 2024 – Nov. 2024
- Created an AI-powered brainstorming tool that suggests personalized hackathon project ideas based on user input.
- Implemented the Gemini API to analyze 30,000+ past hackathon-winning ideas for generating project suggestions.
- Developed a recommendation engine, improving idea relevance and boosting user retention by 25%.
- Integrated a dynamic search and filtering system, allowing users to refine project suggestions based on interests.

HackTracker | TypeScript, React, Tailwind CSS, tRPC, Next.js, Git   Sep. 2024 – Nov. 2024
- Built a centralized dashboard for tracking 100+ hackathons with real-time event updates and filters.
- Led front-end development, designing a responsive UI that reduced load times by 40%.
- Implemented a filtering system to categorize hackathons based on location, theme, and prizes.
- Enhanced user workflow by integrating seamless navigation between event details and registration pages.

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, JavaScript, HTML, CSS, TypeScript
Frameworks/Libraries: React, Angular, React Native, Django, Tailwind CSS, Node.js, Next.js, Drizzle, tRPC, Prisma, Tkinter, Pygame, PostgreSQL, SQLite
Developer Tools: Git, GitHub, Docker, VS Code, Vercel, PyCharm, Blender, Onshape