

# Bryan Taylan

bryanefetaylan@gmail.com |  bryan-taylan |  BryanTaylan

## EDUCATION

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### University of Central Florida

Bachelor of Science in Computer Engineering — GPA: 3.85

Orlando, FL

Spring 2027

## EXPERIENCE

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### Software Engineer Intern

*Knight Hacks*

September 2025 – Present

Orlando, FL

- Built backend features with **tRPC**, **TypeScript**, and **SQL** supporting judging for **1,000+** participants.
- Designed **PostgreSQL** schemas with **Prisma ORM** to power real-time judging data and results dashboards.
- Integrated **Stripe API** to process and track **\$95,000+** in corporate sponsorship payments.
- Engineered the results page frontend in **TypeScript** for an internal form platform replacing Google Forms, implementing **4** response display types via `shadcn/ui`.

### Software Engineer Intern

*NextGen Software*

May 2025 – August 2025

Boca Raton, FL

- Improved **HTML/CSS** layouts for a bookselling site, increasing product page consistency and reducing layout-related support requests by **20%**.
- Enhanced catalog styling and mobile responsiveness, driving a **15%** increase in average session duration.
- Partnered with **3** clients to implement design feedback, accelerating delivery and improving user experience.
- Conducted **cross-browser** and **device compatibility** testing across **5+** environments, ensuring consistent UI behavior and reducing visual regressions.

### Software Engineer Intern

*NextGen Software*

June 2023 – August 2023

Boca Raton, FL

- Modernized the Tier 25 app (**5,000+** downloads) using **React**, improving UI consistency and user experience.
- Optimized **HTML**, **CSS**, and **JavaScript** across **10+** pages, improving SEO, responsiveness, and support.
- Resolved **20+** UI inconsistencies using Chrome DevTools and manual testing, enhancing mobile performance.
- Collaborated with senior engineers to document UI component standards, streamlining onboarding and improving team development consistency.

## PROJECTS

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### Agentic Nuclear Reactor | *Python, FastAPI, Google ADK, Gemini, Next.js, TypeScript, Arduino*

- **1st Place Overall & Google Cloud ADK Winner**, HackUSF 2026 (**80+** projects)
- Built a 4-agent **Google ADK** system autonomously steering a **3kV** electron beam using Gemini reasoning, with real-time telemetry via **FastAPI** WebSockets and a **Next.js** dashboard.
- Engineered **Arduino** firmware interfacing **2** electrode sensors to stream Faraday cup micro-current data and DAC steering signals to the ADK pipeline.

### Systema | *Next.js, TypeScript, Google Gemini API, Resend, Supabase*

- Placed **1st out of 120** for MLH Best Use of **Google Gemini**, Knight Hacks 2025.
- Built AI interview platform with **Gemini 2.0 Flash** for real-time auto-grading and proctoring via **Gemini Vision API**, detecting violations every **10 seconds**.
- Architected an automated candidate pipeline using **Supabase** and **Resend API**, enabling real-time interview scheduling, proctoring event logging, and automated feedback delivery.

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, TypeScript, Java, C, HTML/CSS, SQL, MATLAB, C#, C++, Verilog

**Frameworks/Libraries:** React, Next.js, Remix, Node.js, Flask, Nest.js, tRPC, Tailwind CSS, Prisma, Shadcn

**Tools/Platforms:** Git, REST APIs, AWS, Vercel, MongoDB, Postman, VS Code, Docker, OpenAI, Gemini