Justin Roderick

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Education

University of Central Florida Orlando, FL

Bachelor of Science in Computer Science, Minor in Mathematics

- **Activities**: Knight Hacks Software Development Club
- **Relevant Coursework**: Computer Science 1, Object-Oriented Programming, AI, Algorithms for ML

Technical Skills

Languages: JavaScript, TypeScript, Java, Python, C/C++, SQL, HTML/CSS
Frameworks and Libraries: React, Next.js, Node.js, Bun, TanStack Router, Express.js, Tailwind CSS, tRPC, NextAuth.js, Prisma, Drizzle ORM, pandas, NumPy, Matplotlib
Developer Tools: Git, Docker, AWS (EC2, S3), GitHub, Vercel, Azure, MongoDB, Jira, PostgreSQL, VS Code, IntelliJ

Experience

Orlando Health Aug. 2024 – May. 2025

Senior Capstone Project *Orlando, FL*

- Led as the **Project Manager** in an **Agile** environment to create a software that determines the optimal angle and position of the cannula of a Left Ventricle Assist Device to limit complications after surgery, such as strokes.
- Initiated our **Next.js** monorepo that utilized modern frameworks like **tRPC**, **Drizzle ORM**, and **Zod** to maintain typesafety and utilized **Turborepo** to speed up dev server start times by **76%**.
- Orchestrated a **CI/CD** pipeline using **GitHub Actions** to automatically update and integrate the changes in our **Docker** containers deployed on **AWS EC2** instances.
- Automated 3D segmentation of patient CT scans using **TotalSegmentator** and **nnU-Net** within a container, saving hours of manual work, and stored results in **AWS S3** for cloud access and app visualization.
- Increased model accuracy by roughly **60%** by utilizing the 3D Slicer Docker image to smooth and hollow STL files which were displayed to the user using **Three.js** scenes.

Freelance Web Developer May. 2024 – Present

Self-Employed *Orlando, FL*

- Engineered various web applications for local businesses from e-commerce sites to detailing brands.
- Utilized modern **SEO** practices to increase website traffic by on average **30%**.
- Implemented **Umami** for web analytics to allow customers to track growth and see traffic data.
- Integrated technologies such as **Cal.com** for scheduling and **Stripe** for payments to improve user experience.

Knight Hacks Aug. 2023 – May. 2025

Dev Team *Orlando, FL*

- Maintained and built various club applications such as our club website utilizing **Next.js** and **tRPC**.
- Leveraged Dicord OAuth2 within **NextAuth.js** to ensure efficient registration and login for **500+** club members.

Projects

Rate My Coach | *React, TypeScript, Bun, TanStack Start, Hono, Coolify, Drizzle ORM, AI SDK, Docker*

- Engineered a platform where users can rate and review private coaches in niche fields.
- Integrated **AI SDK** to auto-generate review summaries, giving users an instant overview.
- Utilized **Server-Side Rendering (SSR)** to reduce client-side load times by nearly 50%.

Slicer | *React, Next.js, Express.js, React Native, Expo, Tailwind CSS, Vercel, MongoDB*

- Developed a lightweight inventory management system for restaurants to track orders and stock.
- Implemented **Turborepo** to create a monorepo that combined our web and mobile codebases, cutting the test environment start time by **55%** and enabling faster production previews.
- Built a mobile app for real-time inventory updates using **Expo** and deployed it to app stores with **EAS**.

Personal Cloud Storage App | *TypeScript, Next.js, SingleStore, AWS S3, Netlify, Clerk, React Query, Posthog*

- Implemented secure file uploads/downloads using **AWS S3 pre-signed URLs** with authentication via **Clerk**.
- Tracked user engagement with **Posthog** and optimized UI performance using **React Query**, improving caching efficiency and reducing load times.
- Migrated from Postgres to **SingleStore**, reducing file lookup latency by **67%** through faster query performance.