

# Justin Roderick

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## EDUCATION

### University of Central Florida

Orlando, FL

*Bachelor of Science in Computer Science, Minor in Mathematics*

*Aug. 2021 – May 2025*

- **Activities:** Knight Hacks Software Development Club
- **Relevant Coursework:** Computer Science 1 (Data Structures and Algorithms), Processes for Object-Oriented Software Development, Artificial Intelligence, Algorithms for Machine Learning
- **Awards:** Florida Bright Futures Academic Scholar, Dean's List

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Java, Python, C, SQL, HTML/CSS

**Frameworks:** React.js, Next.js, Node.js, Express.js, Tailwind CSS, tRPC, NextAuth.js, Prisma

**Developer Tools:** Git, Github, Figma, Vercel, Azure, Docker, MongoDB, MySQL, PostgreSQL, VS Code, IntelliJ

**Libraries:** pandas, NumPy, Matplotlib

## EXPERIENCE

### Orlando Health

Aug. 2024 – Present

*Senior Capstone Project*

*Orlando, FL*

- Currently working with 5 other developers to create a software that determines the optimal angle and position of a Left Ventricle Assist Device to limit complications after the device is implanted, such as strokes
- Utilizing libraries such as Matplotlib, NumPy, and PyDICOM to quickly import and manipulate large DICOM files such as cardiograms
- Ensuring HIPAA regulations are followed by using AWS S3 to store and encrypt the DICOM images at rest and in transit

### Knight Hacks

Aug. 2023 – Present

*Operations Member*

*Orlando, FL*

- Collaborated with the rest of the operations team to plan and organize both hackathons and other Knight Hacks events
- These events include workshops that taught important Software Development topics such as OOP, Git, and Full-Stack development

## PROJECTS

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

- Worked with a small group to create a lightweight Inventory Management software for restaurants
- Used Turborepo to seamlessly combine both our web and mobile codebases to speed up our testing environment by 30%
- Designed and created the mobile portion using React Native and Expo to reuse as many components from our web app as possible
- Utilized the open source shadcn/ui component library to make an attractive UI with good user experience

**UCF Events** | *TypeScript, Next.js, tRPC, Tailwind CSS, SQLite, Prisma, NextAuth.js*

- Developed an event planning web app that allowed organizations to post events and other users to react and give feedback on those events
- Ensured that events could not be planned at the same time and location by using SQL constraints
- Leveraged tRPC and Zod schemas to create type safe APIs
- Utilized Prisma ORM to simplify database queries

**Finding Friends** | *JavaScript, HTML, CSS, PHP, MySQL Bootstrap*

- Developed a simple contact manager to practice CRUD operations
- Created RESTful API endpoints in PHP that ran on an Apache server
- Utilized CSS animations to create an attractive and interactive UI
- Wrote a custom CI/CD script using GitHub Actions to automatically push updated code to a DigitalOcean VM when commits were made