

# Dev Kunjadia

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## EDUCATION

### University of Michigan

*Bachelors of Engineering in Computer Science, Minor in Mathematics*

Ann Arbor, MI

*Expected May 2025*

**Coursework:** Data Structures and Algorithms (**EECS 281**), Operating Systems (**EECS 482**), Web Systems (**EECS 485**), Machine Learning (**EECS 445**), Computer Organization (**EECS 370**), Linear Algebra (**MATH 217**), Discrete Mathematics (**EECS 203**), Probability Theory (**MATH 425**), Statistical Analysis (**STATS 250**)

**Leadership:** Void Tech Consulting (Senior Developer), V1 (Media Chair), Club Wrestling (Recruitment Lead)

## EXPERIENCE

### Software Engineering Intern

May 2023 – Present

*Skyspecs*

*Ann Arbor, MI*

- Led the development and customization of React components using React and Ant Design (AntD), resulting in enhanced user interfaces, and conducted testing of over 800 components by encoding custom Cypress queries
- Employed Apollo GraphQL effectively to formulate data queries, which were seamlessly integrated into the front-end employing React and Typescript, thereby facilitating damage data retrieval for over 200,000 GET requests
- Applied PostgreSQL, AWS, and TypeScript to drive back-end development, successfully organizing and rendering damage data with robust storage, validation, and retrieval capabilities using PostgreSQL and AWS infrastructure

### Software Developer

August 2022 – April 2023

*Void Tech Consulting*

*Ann Arbor, MI*

- Engineered a meticulously architected full-stack system, with a focus on React Native, PostgreSQL, and TypeScript, harnessing the capabilities of React Native to build a versatile cross-platform mobile marketplace for colleges
- Utilized PostgreSQL as a robust SQL database for secure and scalable data storage, while implementing React and TypeScript to engineer a modular and maintainable front-end framework, resulting in an efficient user experience

### Product Management Intern

October 2021 – July 2022

*GoMuve*

*Chelsea, MI*

- Managed the seamless allocation and diligent tracking of progress on a total of 60 JIRA tickets, actively addressing and resolving over 200 reported issues, while closely adhering to the Agile/Scrum Methodology and client needs
- Implemented robust pseudo code, meticulously adhered to business logic, and fulfilled client requirements to develop data validation methods within transit applications, while designing and testing edge cases for ride scheduling

## PROJECTS

### Corridor | *JavaScript, React.js, HTML/CSS, Next.JS, Firebase, React Native, Python*

March 2023 – Present

- Created web infrastructure to provide user analytics, floor plan management, and currently leading the development of a mobile app using React Native, Firestore, and custom JS tooling to render a new indoor navigation system
- Efficiently managed scrum processes with a team of three developers and handled general management processes

### Thread Library | *C++, Multi-threading, Mutexes, Semaphores, Conditional Variables*

May 2023

- Implemented a C++ thread library on Linux, executing CPU initialization, thread creation and swapping using ucontext, interrupt handling, atomicity, thread management, scheduling order, and ucontext struct management.

### Among Us | *C++, TSP Algorithm, Graph Algorithm*

December 2022

- Developed a simulator to accurately model the optimal paths that Among Us characters take, incorporating the implementation of Prim's algorithm, Branch and Bound algorithm, and Kruskal's algorithm to process node data

### Heap Attack | *C++, Git, OOP, Priority Queues, Binary Heaps*

August 2022

- Leveraged STL library data structures, including priority queues and binary heaps, to effectively perform an ordered attack system, while incorporating game logic utilizing, polymorphism, inheritance, and custom predicates

## ADDITIONAL

**Languages:** C++, C, JavaScript, Python, Typescript

**Technologies:** React, Node, PostgreSQL, MongoDB, Next, NumPy, GraphQL, Express

**Developer Tools:** Git, Docker, Jupyter, Anaconda, Postman, Linux, Jira, Apollo, Cypress

**Certificates:** JPMorgan: Software Engineering Virtual Experience, Colt Steele: WebDev Bootcamp