

Dinesh Dammalapati

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EXPERIENCE

Backend Engineering Intern

Jun. 2022 - Aug. 2022

Numerator | Chicago, IL (Remote)

- Developed and implemented high-performance Restful APIs utilizing FastAPI and SQLAlchemy, ensuring expandability and reconfigurability for highly-scalable applications, with an estimated 100+ endpoints
- Enhanced software security by implementing backend features such as tracking user permissions, ownership, and implementing/debugging over 20 backend features, resulting in an estimated 20% increase in security measures
- Increased overall coverage by creating and executing unit, integration, and functional tests to ensure robust and reliable application performance, resulting in an estimated 30% increase in coverage

Teaching Assistant

Jan. 2021 - Dec. 2022

University of Illinois Chicago | Chicago, IL

- Led weekly tutorials for over 30 students in computer arithmetic and mobile applications development, effectively communicating complex technical concepts, resulting in an estimated 80% of students passing the course
- Managed discussion sections, laboratory sections, and tutorials, ensuring a thorough understanding of course material, resulting in an estimated 50% increase in student engagement
- Dedicated extensive time and effort to student success by offering personal office hours for over 200 hours, surpassing the average teaching time expected of a TA by 3x, resulting in an estimated 75% of students receiving a grade of A or higher.

Software Development Intern

May 2020 - Aug 2020

Navayuga | Hyderabad, Telangana

- Implemented multiple UI features and components, gaining expertise in monorepos, trunk-based development, and feature flagging best practices.
- Analyzed and modified existing software to resolve errors, improve interfaces, and enhance performance, resulting in an estimated 30% improvement in overall application performance.
- Communicated technical proposal for software development processes to engineering team, receiving positive feedback and support for implementation, resulting in an estimated 15% improvement in development efficiency.

EDUCATION

University of Illinois Chicago | Bachelor of Science in Computer Science

Aug. 2019 - Dec. 2022

- *Lead*, Similar Interest Game Development
- *Member*, Association of computing machinery

SKILLS

Python | Swift | JavaScript | Java | C | C++ | C# | MySQL | Django | Unity | PHP | HTML | CSS | React | Kotlin | AWS
| F# | Blender | Docker

PROJECTS

Task Management App

Jul. 2022

- Built a task management application using Swift, which empowers users to effectively manage and track daily tasks
- Incorporated CRUD functionality to allow users to effortlessly add, edit and delete tasks
- Leveraged the Core Data framework to proficiently manage and manipulate model layers objects within the application

Open Street Maps

Aug. 2020

- Constructed a back-end operation of loading the Map, building the graph, computing the shortest weighted and general navigation path between two points
- Collected user input and ran the algorithm from the user-inputted starting point to the user-chosen destination, and incorporated search elements for easy selection of start and destination points, allowing the option to run only with a start node.