

Vinodh Nagarajan

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EDUCATION

University of Illinois at Urbana-Champaign

Champaign, IL

B.S. in **Computer Science & Mathematics** · GPA: 3.44/4.00

Expected Dec. 2022

Relevant Coursework: Algorithms and Models of Computation, Data Structures, Software Design Studio, Applied Linear Algebra, Differential Equations, Numerical Methods

EXPERIENCE

Incoming Software Engineer Intern

Atlassian

May 2022 - Aug. 2022

Mountain View, CA

Software Engineer Intern

Glassdoor

Jun. 2021 - Aug. 2021

San Francisco, CA

- Worked with a team of senior managers and lead software engineers to deprecate monolithic legacy application to simplify system design, increase modularity and improve overall site reliability
- Built a GraphQL API with Spring in Java to handle data queries and mutations for company benefit information
- Implemented a federated Apollo GraphQL service with Java, SQL and XML to create a unified API across all Glassdoor services to improve overall API response time by up to 20%
- Performed testing of API functionality with JUnit and Mockito to ensure reliable application performance in QA and Stage environments before deploying to production

Undergraduate Course Assistant

University of Illinois at Urbana-Champaign

Jan. 2021 - May 2021

Champaign, IL

- Mentored students on best coding practices including, but not limited to, code style, object decomposition, object-oriented program design and unit testing in Java and C++
- Moderated weekly code reviews with small groups of students, providing feedback and grading students on code functionality, readability, and structure
- Participated in random weekly audits to ensure that all course assistants were grading students fairly and were holding all students to the same standards

PROJECTS

Illini Info Chatbot | *Kotlin, Gradle, Heroku*

- Developed a chatbot for the Telegram messaging platform as a convenient method of getting course information such as course description, number of credit hours, average GPA from past terms, and more
- Challenges included parsing XML and JSON responses from the University of Illinois' official API in an efficient manner and creating a Heroku dyno to act as a webhook for fast, reliable responses

BackTap | *Kotlin, Jetpack Compose, Gradle*

- Developed an Android application to allow users to tap on the back of their phone to perform various system functions such as switching apps, turning on the flashlight, etc.
- Challenges included filtering sensor data to avoid unintended activation, maximizing application efficiency, and reducing overall power consumption to be within Android system limits

BlockStar | *C++, JavaScript, Google Cloud Platform, GitHub Actions*

- Developed a product review system to verify user purchases to legitimize reviews and analyze existing online reviews for signs of bias, unnatural speech and other fraudulent patterns
- Challenges included implementing a secure blockchain system to verify user purchases and modifying the ReviewMeta API to reliably detect a variety of speech patterns known to be present in fraudulent reviews

TECHNICAL SKILLS

Languages: Kotlin, Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R

Frameworks: JUnit, Catch2, Mockito, Spring, Apollo GraphQL, Jetpack Compose, React

Developer Tools: Git, Docker, Jira, Jenkins, Gradle, Maven, Heroku, VS Code, IntelliJ, Android Studio