

Vinodh Nagarajan

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EDUCATION

University of Illinois at Urbana-Champaign
B.S. in **Mathematics & Computer Science**

Champaign, IL
Expected Dec 2022

EXPERIENCE

Atlassian
Software Engineer Intern - Trello

San Francisco, CA
May 2022 - Aug 2022

- Incoming intern on the Grow Trello team

Glassdoor
Software Engineer Intern - Total Compensation

San Francisco, CA
Jun 2021 - Aug 2021

- Designed and developed a GraphQL API with Spring in Java to handle data queries and mutations for reviews and comments left by users and company administrators
- Implemented a federated Apollo GraphQL service with Java, SQL, and XML to create part of a unified GraphQL API across all Glassdoor services to improve API response times by up to 20%
- Deprecated monolithic legacy application that handled user reviews of company benefits to simplify overall system design, increase modularity and improve site reliability
- Performed testing of API functionality with JUnit and Mockito to ensure reliable application performance in QA and Stage environments before deploying to production

University of Illinois at Urbana-Champaign
Course Assistant - CS 126: Software Design Studio

Champaign, IL
Jan 2021 - May 2022

- Mentored students on industry standard software engineering practices including, but not limited to, good code organization, object-oriented program design, version control using GitHub, and unit testing with popular testing frameworks
- Moderated weekly code reviews with small groups of students, provided feedback and graded students on the functionality, readability, organization, and structure of their code

TECHNICAL SKILLS

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

Frameworks: JUnit, Catch2, Mockito, Spring, Apollo GraphQL, Jetpack Compose, SwiftUI, UIKit

Developer Tools: Git, Jira, Confluence, Jenkins, Gradle, Maven, Docker, Heroku

PROJECTS

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

Illini Info Chatbot | *Kotlin, Gradle, Heroku*

- Developed a chat bot 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

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