Vinodh Nagarajan

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EDUCATION

University of Illinois at Urbana-Champaign — Champaign, IL
B.S. in **Mathematics & Computer Science** — Expected Dec 2022

EXPERIENCE

Atlassian — Mountain View, CA
Software Engineer Intern - Flip Mobile (Trello) — May 2022 - Aug 2022

- Planned redesign effort for Trello workspace management experience on the Trello iOS app
- Designed and developed new Trello workspace invitation system to modernize design and improve UX
- Created modular, extensible, and reusable SwiftUI views to simplify migration from UIKit to SwiftUI
- Worked closely with Trello's web and Android mobile teams to ensure consistent UI/UX across all platforms
- Assisted in revamping onboarding documentation for new Trello iOS engineers, improving organization and clarity
- Improved UI and unit testing efforts on iOS with XCTest and increased code coverage by 23%

Glassdoor — San Francisco, CA
Software Engineer Intern - Total Compensation — Jun 2021 - Aug 2021

- Led migration effort of API for company benefit comments from legacy AJAX system to modular GraphQL system
- Designed and developed a GraphQL API with Spring in Java to handle data queries and mutations for reviews
- Implemented federated Apollo GraphQL instance to create a unified GraphQL API across all Glassdoor services
- Worked closely with other backend and API teams to improve API response times by up to 20%
- Deprecated monolithic legacy application handling reviews of company benefits to simplify overall system design
- Utilized JUnit and Mockito to improve and expand API testing, bringing code coverage to 94%

University of Illinois at Urbana-Champaign — Champaign, IL
Course Assistant - CS Department — Jan 2021 - May 2022

- Mentored students on industry standard software engineering practices such as unit testing and version control
- Moderated weekly code reviews with students, providing feedback on improving modularity and readability of code
- Performed grading audits with other staff to ensure that students were being graded fairly without external biases

TECHNICAL SKILLS

Languages: Kotlin, Swift, Java, Python
Frameworks & Libraries: SwiftUI, UIKit, Spring, Apollo GraphQL, JUnit, Mockito
Developer Tools: Git, Jira, Confluence, Jenkins, Gradle, Maven, Docker, Heroku

PROJECTS

BackTap

- Built Android app to enable users to interact with their phones by tapping on the back of their phone
- Features include letting users choose from a wide variety of actions and dialing in their preferred sensitivity
- Challenges included reducing power usage and tuning detection algorithm to avoid unintentional activation
- Technologies used: Kotlin, Jetpack Compose, XML, Gradle

Illini Info Chatbot

- Developed and deployed chat bot for Telegram to allow students to easily get information about courses at UIUC
- Features include detecting mentions of classes in natural texts and letting users pick what type of info they want
- Challenges included deploying and optimizing Heroku dyno service to reliably respond to students
- Technologies used: Kotlin, OkHTTP, Heroku, Gradle