ESHAAN KUNCHUR

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EDUCATION

BASc. Software Engineering, University of Ottawa- 2020 (third year, expected 2024 graduation)
- · Attained a GPA of 9.35/10 (A+)
- · Dean's List Recipient (each semester)

Longfields Davidson Heights Secondary School, Ottawa — 2014-2020
- · Recipient of the academic and athletic excellence award

TECHNICAL PROFILE

Languages: Python, Java, JavaScript, C, Swift, HTML, CSS, Arduino
Frameworks: React.js, React Native, Next.js
Software Tools: Linux, QNX, Git, Xcode, Maven, Docker, JUnit, JFrog Artifactory, Firebase, Contentful, Jenkins
Project Management: Agile/Scrum, Azure DevOps, JIRA, Confluence

EXPERIENCE

Software Engineer Intern | Cisco - *Network/Embedded/Application Development*   **Fall 2022 | Ottawa, ON**
- ● Specialized in the performance management of Segment Routing over IPv6 (SRv6), evaluating the software-defined network built for the next generation IPv6 standard
- ● Optimized memory-heavy router software to efficiently store SRv6 SID information using C
- ● Designed and implemented tests to assess the performance and functionality of the intermediate system to intermediate system (ISIS) protocol in accordance with SRv6. Testing included and was not limited to verifying High Availability (HA) systems and SRv6 system-specific elements.
- ● Developed PyATS parsers to transform sizable router outputs into easily accessible Python dictionaries. Discovered and resolved major bugs involving pre-existing incorrect parsers.

Software Engineer Intern | BlackBerry - *Vehicle Software Test Development*   **Winter 2022 | Ottawa, ON**
- ● Developed a synthetic sensor in C++ and Python to maximize the use of the IVY Intelligent Vehicle Data Platform's APIs for greater test coverage
- ● Engineered an internal tool to capture data packets being sent between running applications in QNX, enabling enhanced testing capabilities of IVY applications
- ● Designed and implemented tests to validate the full stack of the IVY product on auto-grade OS such as QNX and Linux, as well as hardware such as NXP IMX8 and QUALCOMM 8155
- ● Uncovered and resolved a major latent defect, preventing potential failures in IVY's error-logging system

Software Engineer Intern | Employment and Social Development Canada - *Application Development*   **Summer 2021 | Ottawa, ON**
- ● Conceptualized, implemented and deployed a CSV file validation system using Java, Maven and CrushFTP to remove all validation-related errors from data processing. Leveraged an API to handle file validation, and engineered the system to be applied branch-wide in a production-level environment.
- ● Deployed plugin code and environment configuration into DEV, INT, UAT, and PROD using Jenkins and JFrog Artifactory
- ● Improved upon an existing integration endpoint-testing mechanism by automating the process using Java's Jsch library
- ● Built JUnit tests for Java plugin code within the IntelliJ testing environment, and performed integration testing for CrushFTP pipelines

PROJECTS

Shelf Life | Android/iOS Mobile App (Google Play Store)
- ● Designed and developed an app using React Native to help households track their groceries via UPC/EAN barcode scanning
- ● Integrated the OpenFoodFacts API to allow users to access over 1 million products worldwide
- ● Leveraged Firebase authentication and Firestore Database to store user information
- ● Implemented core UI/UX design principles to ensure easy access for all users, on all devices

Forgetful | iOS Mobile App (Github)
- ● Built an app using Swift and SQLite that leverages Apple's MapKit API to help users plan for their destination
- ● Implemented a complex, yet intuitive map UI to display points of interest and the user's location through the use of SwiftUI
- ● Centralized the app around the composable architecture to better handle state management and composition
- ● Curated a system that provides intelligent item suggestions based on the category of the location

CERTIFICATIONS
- ● Harvard CS50's Mobile App Development with React Native. Encompassed React, React Native, State Management, React Hooks, Redux, JavaScript ES6+ features (async/await, promises, arrow functions), and more
- ● iOS & Swift - The Complete iOS App Development Bootcamp - Udemy course by Angela Yu