

Rishi Sharma

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Education

University of Washington - Paul G. Allen School of Computer Science

September 2022 - June 2026

Bachelor of Science

Seattle, Washington

- **Relevant Coursework:** Data Structures and Algorithms (Java), Prob & Stat in CS (Python), Introduction to Java/Programming Series (Java), Linear Algebra/Discrete Mathematics, Memory and Low-Level Languages (Assembly/C), Data Management (MySQL, Azure SQL), Machine Learning, Computer Security

Experience

Amazon

Jun 2024 – Sept 2024

Software Engineer Intern

Seattle, Washington

- Developed an advanced palm authentication feature using multiple Amazon One APIs, enabling users to securely authenticate transactions by showing their palm to a camera, which included implementing camera activation and image capture on Alexa.
- Enhanced the security of high-level transactions and simplified user experience, replacing traditional OTP methods and eliminating the need for users to use their phones for authentication.
- Served as a full-stack developer on the Alexa team, building features using Kotlin and Java. Leveraged the OkHttp library to efficiently integrate with various API endpoints and services.

HPDIC Lab

Jan 2024 – Jun 2024

Research

Seattle, Washington

- Researched improvements to the encryption performance of homomorphic encryption in cloud-based outsourced databases.
- Analyzed security improvement between homomorphic and traditional encryption.
- Designed novel optimizations through innovational algorithms which address performance limitations and enhance efficiency. Designs conform to outsourced databases in cloud computing requirements.

T-Mobile

Jun 2023 – Sep 2023

Software Engineer Intern

Belleuve, Washington

- Collaborated on a team focused on microchip development for Apple Watches to enable them to be standalone devices.
- Developed a website for T-Mobile MONEY that allowed customers to experience easier navigation to their banking experience and garner more information about the perks of opting into the account.
- Worked with SpringBoot and RestAPIs.

Projects

SiteSync | *React.js, Node.js, GoJS, AWS, Amazon DocumentDB* | Current

- Created and developed a web application that allows businesses to easily manage work orders for subcontractors within their buildings.
- Founded and led the technical department of a start-up comprising approximately 10-15 individuals. Sold software in a business-to-business format.
- Led and managed a team of 5-10 individuals, effectively delegated tasks based on the strengths and weaknesses of team members, ensured that project milestones are met on time.

BizBasics Mobile Application | *Flutter, Dart, Java, FireBase, FireStore*

- Developed an application that allowed the client to better manage their tutoring business through the digitization and organization of all paperwork, making analysis and tracking easy.
- Features a user-friendly interface that includes features such as a search bar for managing students, a navigation bar for easy browsing, and a lock screen to ensure security. Also includes an interactive version of the website.
- Utilized a variety of advanced data structures such as maps, stacks, queues, and trees to enhance the application's efficiency and organization. Integrated Firebase backend support to ensure security.

Technical Skills

Languages: Java, Python, SQL, HTML/CSS, JavaScript, Kotlin

Technologies: React.js, Spring Boot, Express.js, NumPy, Node.js, Android SDK, FireBase/FireStore, Microsoft Azure, Amazon Web Services, Git, MySQL, SQLite, Flutter, OpenCV, TensorFlow Lite