

# Samta Priya Jain

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## EDUCATION

University of Waterloo | Bachelor of Computer Science

April 2023

Honors Computer Science with Business Specialization

## EXPERIENCE

Microsoft | Software Engineer

July 2023 - Present

- Enabling support for **private data across a distributed, collaborative browser** by creating a personal tab type within Edge Workspaces using C++, TypeScript, and Fluid Framework
- Increased feature adoption by partnering with marketing team to develop API to launch Workspaces within advertising media
- Leveraged Bing AI to **reliably generate valid URLs** relevant to a user's query and automate Workspace generation
- Led initiative to increase feature security by designing automated fuzz tests, leveraging C++ and LLVM libFuzzer

Meta | Software Engineer Intern

Sept 2022 - Dec 2022

- Improved **promotion ranking algorithm** by leveraging trends in historical impressions per hour, increasing **engagement by 0.40%**
- Added scalability to promotion optimization levers by designing and launching modular lever structure
- Redesigned internal promotion coordination tool to **increase control granularity** and persist data across the internal dashboard

Microsoft | Software Engineer Intern

May 2022 - July 2022

- Increased security in Edge browser by **leveraging biometrics to encrypt data**, boosting adoption of passwordless Windows login
- Designed and implemented utility integrating Windows encryption API in Edge using C++, WinRT, WRL, and Chromium
- Improved data integrity and availability by persisting encryption keys between secure logins and protecting saved data

Meta | Software Engineer Intern

Sept 2021 - Dec 2021

- Developed and launched keyword search for Saved Items feature to **5% of mobile users** using React Native and GraphQL
- Implemented pagination using Relay to sustain **reliable load performance** independent of amount of available data
- Integrated search bar in Saved navbar on Facebook mobile app using Kotlin, Java, Objective C, and Hack/PHP

Intelx Technologies | Mobile Software Development Intern

Jan - Apr 2020 | Sept - Dec 2020

- Improved mobile app's image processing and expanded supported types by implementing **image decoding, type conversion and resizing** using React Native, Java, and Objective C
- Developed interface of **mobile e-signature** feature and added navigation paths for cohesive experience
- Scoped and presented recommendations for implementing **universal links** on iOS devices
- Reduced feature BDD testing time by **10%** by improving test scalability and reducing redundancies using Cucumber and Appium

Veeva Systems | Software Engineering Intern

May 2019 - Aug 2019

- Implemented data customizability on dynamic graph visualization used **9100+ times monthly**, built with JMVC, EJS, Sass, D3
- Developed interface of interactive force-directed graph widget that visualizes complex relationships using Polymer, D3
- Improved UI coherence and usability by supporting **custom entities and relationships** of the user's specifications

WatLock | Software Lead

Oct 2018 - Jan 2021

- Led SEDRA design team of 52 members to **engineer airlock for Mars colony** in international competition finals
- Directed projects to build user interface for astronauts and construct server communication methods using Arduino and C

## SKILLS

**Languages:** C++, JavaScript, Hack, Java, Python, C#, C, SQL, HTML, CSS

**Technologies:** React, React Native, Node.js, GraphQL, Git, Mercurial, Unix, XCode, Android Studio