

# Alexander Joshua

Software Engineer

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## Skills

**Programming:** Java, JavaScript, TypeScript, React, Next.js, Node.js, HTML5, CSS3, Python, C/C++

**Development Tools and Environments:** Git, Mercurial, Linux/Unix

**Data/Databases:** PostgreSQL, Prisma

**Design:** Figma, Blender, Adobe Illustrator

## Work Experience

### Software Engineer – *Meta*

Menlo Park, CA

September – November 2022

- Extended UI functionality on a mixed reality application by integrating hand tracking
- Converted Java modules to Kotlin using a transpiler followed by manually debugging several hundred lines of improperly translated code to ensure complete accuracy
- Assisted oculus.com to meta.com migration by updating code paths and adding delegation functions for control flows

### Sculpture Teaching Assistant – *Williams College*

Williamstown, MA

September 2020 – June 2022

- Educated students on new techniques, use of power tools, and how to prepare art installations for critiques
- Collaborated with professors to construct custom pieces for classes and maintain clean and useful workspaces

### Research Assistant – *Williams College*

Williamstown, MA

June – August 2021

- Integrated a semaphore locking mechanism that ensures the WebThings gateway atomically completes requests sent by a single client in the order they were sent with Cassandra, an external NoSQL distributed database used to detect and prevent data inconsistencies among separate clients

### Software Engineer Intern – *Williams Students Online*

Remote

June – July 2020

- Initiated new mobile app features including an online ordering system to support social distancing efforts for a Williams College coffee shop using React Native and Firebase Cloud Messaging
- Utilized React Native to develop a dark theme for the 2000+ users of the Williams Mobile app

## Projects

### Vibe

Remote

July 2023 – Current

- Developing a full stack social React web application that revolves around music, using Next.js 13
- Ensuring seamless user login and API calls through OAuth via Auth.js and Spotify API as well as orchestrating data management with Supabase, a PostgreSQL database, via Prisma
- Initiating a comprehensive testing suite with Vitest and Cypress to ensure code quality and functionality

### Notepad

Remote

July 2023 – Current

- Engineering a dynamic full stack notetaking React web application using Next.js 13, integrating Auth.js with GitHub OAuth for secure user authentication, and leveraging Supabase via Prisma for efficient data management
- Designing a modern UI with Tailwind CSS and adding dynamic elements using Framer Motion

### UI Echoes

Remote

June - July 2023

- Leveraged Next.js 13, Tailwind CSS, and Framer Motion to meticulously recreate a collection of iconic user interfaces, enhancing my understanding of what constitutes a great user experience

### Software Product Sprint Participant – *Google*

Remote

February - May 2021

- Collaborated with a team of peers to design and implement a web application using Java, JavaScript, HTML, and CSS while leveraging various Google Cloud Platform APIs, including App Engine and Datastore

## Education

### Williams College

Williamstown, MA

Bachelor of Arts: Computer Science and Studio Art

GPA: 3.51