Alice Yu

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Education

University of North Carolina at Chapel Hill   Aug 2023
Bachelor of Science in Computer Science, Minor in Statistics & Analytics   *Major GPA: 3.9/4.0*

Skills

Languages: TypeScript, JavaScript (ES6+), Java, HTML, CSS, Python, R, SQL (PostgreSQL, SQLite), C, Swift
Frameworks: React, Next.js, Node.js, Express, Redux, MobX, TailwindCSS, Material UI, Bootstrap, JavaFX
Tools: AWS, Supabase, NoSQL (Firebase, MongoDB), Jest, JUnit, Git, MS Excel, LaTeX, Jira, Linear, Slack
Design: Figma, Canva, Photoshop, Illustrator, Procreate, XD, InDesign, After Effects, MS PowerPoint
Certifications: Google UX Design (2021), IBM Accelerate: Software Developer (2021), Adobe Certified Associate (2019)

Experience

Wake Smiles   Jan 2023 – May 2023
Software Engineer, Co-op   *Raleigh, NC*
- Led a team of 4 co-ops in developing a volunteer portal with 250+ active users for a nonprofit dental clinic serving thousands of uninsured, utilizing **Next.js**, **React**, **TailwindCSS**, **TypeScript**/**JavaScript**, and **Supabase** (**Postgres)**
- Implemented shift scheduling and admin controls while improving mobile responsiveness and accessibility on UIs
- Iterated on client feature requests, creating roadmaps, **Figma** mockups, and MVPs for acceptance testing

Amazon   Jun 2022 – Sep 2022
Software Development Engineer, Intern   *Irvine, CA*
- Spearheaded development of internal web tool for Amazon Smart Vehicles to facilitate efficient coordination between engineering and design using **React**, **MobX**, **TypeScript**, and **AWS** (**Amplify**, **Code Commit**, **Cognito**)
- Deployed the tool to be used by 400+ engineers building in-vehicle infotainment systems for 14 car brands
- Created design documents and project milestones through **Jira**, presenting to stakeholders for Q3 planning

UNC Department of Computer Science   Aug 2021 – May 2023
Undergraduate Teaching Assistant (COMP 301, 426)   *Chapel Hill, NC*
- Engaged 350+ students in COMP 426 to teach in modern web development fundamentals using **HTML**, **CSS**, and **JavaScript**, using **GitHub** forums and workflows to moderate and resolve student needs
- Supported 400+ students in COMP 301, reinforcing object-oriented programming concepts and design patterns
- Wrote programming assignments with **Java**, **JUnit**, and **JavaFX** to motivate iterative test-driven development

IBM Accelerate   May 2021 – Aug 2021
Software Developer Participant   *Chapel Hill, NC*
- Led team of 5, guided and collaborated in assignment completion and improved efficiency of team's productivity and communication by utilizing **GitHub** and **Trello** as a workspace
- Supervised and spearheaded the design and implementation of team project UIs using **React** and **RESTful APIs** and improved quality and performance of the final product

Pearl Hacks   May 2020 – May 2022
Executive Director of Design & Promotion   *Chapel Hill, NC*
- Designed digital and print graphics for an internationally attended hackathon using **Adobe Photoshop**, **InDesign**, **Illustrator**, and **Procreate**, focusing on themes of empowering gender inclusion and beginner friendliness
- Collaborated with the board of directors in establishing logistics (including registration form and sponsor/hacker guides) and event flow of the hackathon, attracting 1K+ annual registrants (one of the biggest hackathons in state)
- Supervised a 3 member design committee, delegating tasks to adhere to design themes and deliver merchandising

Projects

Saba Secrets Messenger – *Research Project*   Jan 2023 – May 2023
- Worked in a team of 4 to build an end-to-end encrypted realtime messaging application based on Signal Protocol
- Created user-friendly and accessible prototypes using Figma to effectively communicate and validate design concepts throughout the development phases
- **Technologies**: Next.js, React, TypeScript, Tailwind, HeadlessUI, tRPC, Prisma, Supabase, Redis, Upstash