Ashley Chang

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🎓 Education

Brown University   August 2019 – May 2023
BS Computer Science   *Providence, RI*
BA Literary Arts   *GPA 4.0/4.0*

🥧 Experiences

Stripe   June 2022 – Present
Software Engineering Intern   *New York, NY*
› Created a country launch portal for Stripe Terminal using Typescript, React, Mongo, Ruby, and Protobuf
› Migrated Terminal's supported platforms, devices, and integration shapes to adhere to Stripe's internal configuration system and validated writes using LDAP access control and Two-Stripe confirmation
› Extended Stripe's internal home page to include interactive food recommendations between employees

NASA Chandra X-Ray Observatory   January 2021 – Present
Research Assistant   *Providence, RI*
› Developed a client-side image sonification platform using React, OpenCV, and Tone.js
› Developed a generalized image sonification algorithm involving pitch, tone, instruments, rgb values, edge detection, and object identification, which was used on hundreds of NASA Chandra Observatory images

Corteva Agriscience   May 2021 – August 2021
Software Development Intern   *Indianapolis, IN*
› Built and tested an inoculum request and production app using Outsystems, Javascript, and SQL
› Implemented request submission, messaging/feedback, role assignment, data display, and tracking features

Watson Institute for Public Affairs   January 2020 – January 2021
Research Assistant   *Providence, RI*
› Developed an online OCR engine that outputs the English and Chinese text contained within pdf and image files using Vue, Pytesseract, and Flask, with an attached rich text editor and emailing service for results
› Developed python and scala scripts for processing metadata from 1960s Chinese government cables

Brown University Computer Science   August 2020 – Dec 2021
Undergraduate Teaching Assistant   *Providence, RI*
› Developed the solution code for students' final projects and created a web interface for validating results
› Maintained the course website and instructions for assignments (with themes!)
› Held office hours where I helped students debug their work and taught key computing concepts in lab hours

⚗ Projects

Timbre Music
› Developed a sample sharing site for musicians using Java Spring Boot, Mysql, Go, Next.js, and Docker
› Developed full-stack support for custom user avatars, file sharing, intelligent music recommendation, audio playback and download, customized user settings, and liking songs
› Used Next.js to prefetch data and support css modules, and used react-spring for custom animations

⚙ Skills

Expert Java, Python, Scala, and React
Proficient SQL, Bash, C, Vue, Svelte, and Git

🔑 Activities

Online head for Cornerstone literary magazine, Beatboxer for Ursa Minors acapella group