ASHLEY CHEN

721 S Forest Ave, Ann Arbor, MI 48104 e: awchen@umich.edu m: (925) 478-9492

EDUCATION

University of Michigan Ann Arbor, MI **GPA: 3.7/4.0 | Expected: December 2023**
Bachelor of Science in Computer Science Engineering, Minor in Statistics
Relevant Coursework: Data Structures & Algorithms, Computer Security, Theory of Computation, Computer Organization, Computer Pragmatics, Discrete Math, Java Programming, (Current: Web Systems, Artificial Intelligence, Statistical Computing)

EXPERIENCE

Michigan Daily | Mobile App Developer | *Ann Arbor, MI* **September 2022 – Current**
- Envisioned and implemented the Sections page for Michigan Daily app utilizing React Native and JavaScript.
- Conducted beta/ user testing interviews to analyze user interaction and recommend improvements.
- Collaborated with team to define, design, and ship new features on the app, scheduled for release in Winter 2023.

Chewy | Software Engineer Intern | *Boston, MA* **June 2022 – August 2022**
- Facilitated the transition of Android Platform's internal design library to the Chirp Design System used at Chewy by developing an Android app with standardized design tokens from the Chirp design language.
- Incorporated 30+ typography styles, color styles, and button components created by the Design Foundations Team in Figma into the Chirp app for Android developers to use.
- Presented app demos and updates to the Android and Mobile App-Wellness team, according to an Agile workflow.
- Troubleshot and fixed bugs on Chewy Android app to maintain software functionality and enhance user experience.

Juni Learning | Computer Science Instructor | *Remote* **January 2022 – May 2022**
- Conducted one-on-one online lessons to 10–18-year-old students using project-oriented curriculum to teach fundamental CS concepts (algorithms, data types, loops, conditionals, etc.) in Python, Java, and C++.
- Promoted critical thinking in young CS students through teaching proper design, development, and debug practices.

University of Michigan (UROP) | Research Assistant | *Ann Arbor, MI* **September 2021 – April 2022**
- Analyzed genomic mutation patterns in dissected H&E slide bladder cancer images using pathologist-level interpretable whole-slide diagnostics tool with deep learning from a public GitHub repository.
- Assessed the prediction accuracy and error rate of 4 existing algorithms that permit determination of genomic/ molecular status from histology H&E slide images using PyTorch and Keras.

PROJECTS

Web Page | *Instagram Clone* **August 2022 – October 2022**
- Built an Instagram clone website deployed to AWS with client-side and server-side dynamic pages that allows users to post, like, comment, and follow.
- Utilized sessions and SQL to create a database-backed website with ReactJS to make AJAX calls to the REST API.

Android Application | *Budget Tracker App* **November 2021 – December 2021**
- Programmed an Android application using Java on Android Studio which tracks and organizes individual user-inputted transactions based on purchase category, name, cost, and entry time.
- Implemented serialization to keep data safely stored along with multiple Activities, Views, Dialog Fragments, and inheritance classes for ease of use.

C++ Project | *Piazza Post Classifier* **February 2021 – March 2021**
- Developed an algorithm that uses natural language processing and machine learning to automatically identify the subject/ label of posts from a EECS 280 discussion board on Piazza with ~95% accuracy.
- Utilized templated binary search tree and maps to store 3,000+ training Piazza posts and tags for easy accessibility.

SKILLS

Languages: C++, Python, Java, Kotlin, C, SQL, JavaScript, Bash, R
Technologies: HTML/CSS, Flask, React, Git, Android Studio, XCode, VS Code, RStudio, JIRA, Mac OS
Honors/ Awards: Michigan Engineering Dean's List, University Honors, President's Volunteer Service Award-Gold