

JASON CHEN

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EDUCATION

University of Maryland B.S. in Computer Science	Aug 2020 - May 2024 GPA: 3.48
<i>Relevant Coursework:</i> Object-Oriented Programming Data Structures & Algorithms Advanced Data Structures Database Design Programming Handheld Systems Intro to Artificial Intelligence Computer & Network Security	

EXPERIENCE

Booz Allen Hamilton Management Consulting Company Sit(x) Team <i>Mobile Developer Flutter, Dart, Git</i>	Oct 2024 - Present McLean, VA
· Enhanced critical mobile application infrastructure, contributing 5,000+ lines of production code while resolving major system bugs in COT message parsing, file storage, and database synchronization, resulting in 40% reduction in crash reports	
· Engineered map-based drawing toolkit with geofencing features, delivering real-time location tracking, comprehensive event logging, and automated alerts that enhances situational awareness and streamlined communication for field operations	
· Designed and deployed file download management system with progress tracking and caching, reducing file access time by 30%	
· Implemented comprehensive localization features for the Sit(x) mobile app, enabling multi-language support	
Hailbytes Cloud Security Company <i>Intern Wordpress, SEO Copywriting</i>	Jun 2023 - Aug 2023 Laurel, MD
· Utilized WordPress and SEO Copywriting to create dozens of articles that garnered hundreds of views on the company website	
· Analyzed and implemented WordPress plugins that significantly reduced website content load time from 2.5s to 950 ms , raising Hailbytes's GTmetrix rating from B to A	

LEADERSHIP AND PROJECTS

MyCookBook <i>Full Stack Web Application Next.js, NextAuth.js, Typescript, Tailwind, PostgreSQL, Prisma</i>	Jun 2024 - Aug 2024
· Developed a dynamic full-stack recipe finder and builder app using Typescript, Next.js, and Tailwind enabling users to create, search, and delete recipes within an aesthetic interface	
· Implemented robust backend services using NextAuth.js, PostgreSQL, Prisma, TanStack Query, and Axios to handle data management, authentication, API calls, and scalability, adding a layer of personalization and security to the app	
· Designed an in-depth filter system for users to filter recipes by difficulty, price, and nutrients	
BookWorm <i>Programming Handheld Systems Flutter, Dart, Collaborative Development</i>	Apr 2024 - May 2024
· Spearheaded and collaborated with 3 classmates on Bookworm, an intuitive book organizer Flutter mobile application that enhances the reading experience by allowing users to record, organize, and reflect on their readings	
· Integrated note-taking, word definition lookups, and personalized libraries using a dictionary and Google Books API and state manipulation that is all wrapped in an aesthetic and user-friendly interface	
Cryptographic Protocol Analysis and Exploitation <i>Computer & Network Security Python, Binary Data Manipulation, Block Cipher Analysis</i>	Nov 2023 - Dec 2023
· Analyzed encrypted network traffic from a banking application to discover cryptographic weaknesses, successfully altering financial transactions and redirecting payments through pattern recognition and ciphertext manipulation techniques	
· Developed binary stream parser in Python that processed 16-byte cipher blocks, differentiating between variable-length messages (2-block balance requests, 5-block transfers, 4-block invoices) through systematic validation of field constraints	
· Implemented exhaustive parsing algorithm testing all six possible transaction type orderings to reverse-engineer message protocols from ECB-encrypted data, building pattern dictionaries to track recurring ciphertext blocks across sessions	
Nelovo Filesystem <i>Introduction to Computer Systems C, Memory Management</i>	Apr 2022 - May 2022
· Engineered a simulated file system in C using dynamic memory allocation and deallocation	
· Designed a linked list data structure to efficiently manage file creation, deletion, and movement	

TECHNICAL SKILLS

Programming	Python, HTML/CSS, C, Dart, Java, JavaScript, TypeScript, PHP, Ruby, Ocaml, Node
Frameworks	(Next.js, PostgreSQL)
Database	PostgreSQL, MongoDB, MySQL
DevOps	Git, Jira