

SHALOM CESAR

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EDUCATION

Johns Hopkins University

Baltimore, MD

BS in Computer Science

May 2024

Courses: Software System Design, Object-Oriented Software Engineering, Data Structures, Databases, User Interfaces and Mobile Applications, Security & Privacy in Computing, Algorithms, Artificial Intelligence, Probability and Statistics, Linear Algebra, Differential Equations, Calculus III, Complex Analysis, Ethics of Artificial Intelligence

INDUSTRY EXPERIENCE

Security Engineer Intern

Boston, MA

Bullhorn

September 2023 - January 2024

- Conducted Network Access analysis to optimize role permissions and app policies within Appgate SDP and identified over ten potential security vulnerabilities from active roles.
- Constructed queries in Axonius and wrote scripts in JavaScript to determine machine compatibility with CrowdStrike security software to identify needed upgrades in 500+ machines across 12 data centers.
- Gathered crucial internal data for the InfoSec department by interviewing development teams across Bullhorn's 20+ products, compiling information about data store solutions for each product and access roles.

Software Engineer Intern

Boston, MA

Bullhorn

June 2023 - September 2023

- Collaborated on Bullhorn ATS as member of Agile development team through Jira Software and GitLab. Performed high quality code review and constructed test plans, resulting in 10+ merges to codebase and safe updates to production systems.
- Examined noise on the Elastic Stack totaling in 40,000,000+ error logs each month by analyzing stack traces, locating code within given service and devising solutions, and meeting with SMEs to discuss fix proposals.
- Improved quality and standardization of log information through codebase fixes, reducing monthly error level logs by over 10,000,000 per month across five services utilized by Bullhorn ATS.

Software Developer

Hackensack, NJ

Route 66 International

June 2022 - August 2022

- Devised an inventory management system based on real-time production values and shipping data to keep track of raw materials and products, determine current inventory, and facilitate restock.
- Created and organized a database of more than 15,000 potential client contacts across the United States, performing data analysis using Python to support the Sales Team.
- Simplified workflow for Sales Team and Management by automating spreadsheets through custom scripts.

PROJECTS

Lead Developer, NBA-Stats

December 2023 - January 2024

- Built a web scraper with Python and the Pandas library to extract 75 years of statistical data on players and teams from Basketball Reference, cross-referencing it with the NBA Stats API to populate a relational database.
- Designed PostgreSQL relational model, minimizing redundancy through BCNF optimization, and deployed to Supabase.
- Developed a user-friendly web application with NextJS 14 to allow clients to interact with deployed database intuitively, providing insights such as statistical comparisons between players over given periods and categories.

Lead Developer, ReciPlease

February 2023 - May 2023

- Lead development and managed seven-person team to craft a streamlined recipe site personalized to users' dietary restrictions and preferences, allowing for clients to search by ingredients and needs.
- Developed a RESTful API with Node.js and Express to make requests to the PostgreSQL database, Prisma to integrate complex filtering and sorting queries, and Jest to provide extensive test coverage for each endpoint (>90%).
- Designed a NextJS front-end application with strong adherence to UX principles and employing MaterialUI and Tailwind, storing image files with Cloudinary and leveraging Next-Auth.js to implement secure authentication.

Lead Developer, Cardify

February 2023 - February 2023

- Crafted and implemented a user-friendly interface for a Flashcard application using React.js, CSS, and the Mantine UI component library, ensuring an intuitive user experience.
- Constructed robust API server endpoints using Node.js and Express, facilitating seamless communication between frontend and MongoDB document-based database for efficient data retrieval and manipulation.
- Implemented user account creation and flashcard set management functionalities within application, empowering users to curate personalized study materials and enhance learning experience.

SKILLS

Software: JavaScript, TypeScript, Python, Java, C, C++, Android Studio, x86-64 Assembly, PHP, SQL, HTML5/CSS, React.js, Node.js, Express, NextJS, Tailwind, React Native, Prisma, Git Flow, Jira, Unix, CrowdStrike, Appgate, Axonius, CI/CD, Scala, Go

Databases: Relational DBs (PostgreSQL, MySQL, Microsoft SQL Server); NoSQL DBs (MongoDB, Firebase)

Non-Technical: UI/UX Design, Software System Design, Agile Methodology, Unit Testing, Error Handling/Logging, Database Design, API Design, Project Management,