

Alexander Mains

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EXPERIENCE

Senior Software Engineer

March 2023 - Current

Booz Allen Hamilton | San Antonio, TX (remote)

- Led the frontend development team on overhauling an NIH website, with JavaScript, ReactJS, Redux, Bootstrap, AXIOS, webpack, and NextJS; while attending to WCAG 2.0 requirements and other NIH policies.
- Assisted UI Designers by refining Figma and LucidSpark whiteboards for low and mid fidelity wireframes.
- Developed the Study Explorer, Metrics, and Study Registration Pages; as well as the in-house React and Bootstrap component library with Storybook to enforce design language consistency and stability within the website, as well as provide automated 508 testing at the component level.
- Architected solutions for both frontend and backend integrations at both high and low levels, and utilized Test Driven Development principles to drive development with Jest for Unit Testing.
- Implemented changes to Standard Operational Procedures for project planning to solve blockers in the Software Development Life Cycle, initialized coding and documentation standards, and testing and peer review processes.
- Situated cross-training processes across the front-end team to reduce bottleneck knowledge gaps in the system design.

Lead Software Engineer

December 2021 - January 2023

Defense Logistics Agency | San Antonio, TX (remote)

This is consolidated experience under Credence Management Solutions and Partnet Inc.

- Modernized the account section of FedMall Commerce for DLA using JavaScript, ReactJS, Redux, Bootstrap, AXIOS, webpack, NextJS and NodeJS, with Java and Python 3 REST and AWS services, and a GraphQL layer to reduce calls by ~95% of their previous size.
- Created the in-house React component library with Storybook to enforce consistency across FedMall modernization projects.
- Reduced P99 latency for Orders pages from 22 seconds to 1 second with GraphQL data composition.
- Created Bulk Upload APIs with asynchronous Python and Java AWS Lambda services, SQS and S3 on big data uploading using an Aurora DB schema for data management.
- Identified and debugged issues in environment ports from Credence to PartNet in the contract transition.
- Implemented Test-Driven Development practices with Jest and Selenium for test automation, and SonarQube for deployment code quality and security gates, saving QA several days of manual testing every sprint and creating a more maintainable product.

Full-Stack Software Engineer

January 2021 - October 2022

Louisiana Grid Coalition | San Antonio, TX (remote)

- Created a site for the Louisiana Grid Coalition's open-source High Altitude EMP calculator built with C++ and JavaScript using ReactJS, Nodejs, Jest, CSS, and Canvas deployed in a docker container for nuclear weapons research.
- Aided the Louisiana Grid Coalition to find economic hosting solutions for their service, utilizing their non-profit status effectively in communicating for licenses of operation, which are included in the repository.

Senior Software Developer

September 2020 - August 2022

Booksmarts LLC | San Antonio, TX (remote)

- Led a team of developers to capture requirements, design, create, and release a website for the streamer "Booksmarts" which utilized JavaScript, Typescript, and React with Nodejs, Jest, CSS, Bootstrap, Tailwind.
- Built and maintained the React component library and Storybook, so frontend code redundancy was reduced by 40%.
- Integrated Facebook, Twitter, Twitch, Google, and Discord account authentication to strengthen the security of the site.
- Implemented multiple stream platforms for the users to view, including YouTube, Twitch, Rumble, and Kick integration.
- Collaborated with design to create wireframes in Figma for the React component library and site pages.

Senior Software Engineer

January 2021 - May 2021

BMyVillage | San Antonio, TX (remote)

- Contracted to manage a team of 5 other programmers and released a Teacher Mentoring web application with JavaScript, React, Jest, and Node.js.

- Built a SQL database and data-driven questionnaire to match users to mentors for an effortless experience.
- Conducted User Interface testing and UX research, and adjusted the website based on user and stakeholder feedback.

Software Engineer

January 2015 - July 2017

Tiffin Airsoft and Paintball | Tiffin, Ohio

- Designed and created a Python Retail PoS product with Microsoft Access, SQL Server for relational database administration with features like Inventory Management, Checkout, Tax Report Management, and a Loyalty System.
- Maintained and sold the point-of-service solution to other businesses in the area as a cheaper alternative to help the business secure \$15,000 (DBA Feytouched Tech) in additional funding in its start-up phase.

EDUCATION

University of Texas at San Antonio | Bachelor of Science in Computer Science

May 2021

- Rowdyhacks 2021 – ‘Strixhaven’ in PIXIjs, Canvas, Node.js, ReactJS and webkit Vocal Recognition

SKILLS

JavaScript

| Typescript | ES6+ | ReactJS | NodeJS | NextJS | Express | Canvas | CSS3 | SASS | Bootstrap | Tailwind | HTML 5 |
| Webpack | Jest | Storybook | Cypress | Rest API | SQL | Redux |

Python

| Python 2 | Python 3 | AWS Lambda | Numpy | Pandas | ScyPy | PyTorch | Postgres | MongoDB |
| Microsoft Access | Artificial Intelligence | Rest API | SQL |

Java

| Maven | Springboot | Coretta 11 (AWS Lambda) | Rest API | SQL |

Cloud

| AWS Lambda | AWS S3 | AWS SQS | AWS Aurora | AWS CloudWatch |

Planning

| Jira | Trello | Agile | Scrum Planning | Confluence |

Delivery

| Kubernetes | Docker | CI/CD | Selenium | Cypress | Postman | GitHub | GitLab | Git | Nexus |

Monitoring

| Jenkins | AWS CloudWatch | SonarQube |