Alexander Mains

(567)-938-1483 | San Antonio, TX | lkarvec@gmail.com | Website: feyprince.dev
GitHub: https://www.github.com/lkarvec | Linked In : https://www.linkedin.com/in/alexander-mains-956b13208/

EXPERIENCE

Senior Software Engineer   March 2023 – March 2024
Booz Allen Hamilton | San Antonio, TX (remote)
• Contracted to lead the frontend development team on overhauling an NIH website, with JavaScript, ReactJS 18, Redux, Bootstrap, AXIOS, webpack, and NextJS 14; while attending to WCAG 2.0 requirements, and other NIH policies, like responsive designs.
• Assisted UI Designers by refining Figma and LucidSpark whiteboards for low and mid fidelity wireframes.
• Developed the Study Explorer with AWS Elastic Search, Metrics with Google Analytics, and Study Registration Pages with AWS Lambdas; 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 System and API design at both high and low levels with LucidSpark, and utilized Test Driven Development principles to drive development with Jest and React Testing Library 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 17, Redux, Bootstrap, AXIOS, webpack, NextJS 12 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)
• Contracted to create a site for the Louisiana Grid Coalition's open-source High Altitude EMP calculator built with C++ and JavaScript using ReactJS 17, 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 17 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 17, 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
Feytouched Tech | Tiffin, Ohio
• Designed and created a full-stack 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 additional funding in its start-up phase.
• Past July 2017, used Feytouched Tech as a DBA for short term freelance consulting work while either unemployed, or studying for Bachelors Degree. Mostly worked on Website Development or Python APIs.

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 | React Testing Library | 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 |