Mark P. King, II

Software Engineer

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🧠 Skills

HTML, CSS, JavaScript, TypeScript, React, Redux, React Native, Node.js, AnglarJS, Gatsby, Next.js, AWS, SQL, MongoDB, GraphQL, Docker, Automated testing, Python, Git, Linux

🎖 Certifications and Achievements

- AWS Certified Solutions Architect – Associate | Issued: May 2020 | Expires: May 2023
- AWS Certified Cloud Practitioner | Issued: May 2020 | Expires: May 2023

💼 Professional Experience

Independent Software Engineer, *Contract*   05/2020 – present │ Remote
- Notable clients: Survivor Plan, Hygieia, QuackHire, Security Home Mortgage.
- Developed automated data processing services and dashboards for electronic health record systems.
- Migrated diabetes patient on-boarding to the web by turning PDFs into web forms and generating completed forms with the results.
- Developed authentication flows using Amazon Cognito and AWS Lambda functions.
- Migrated infrastructure to AWS and developed features allowing job seekers keep track of jobs online.
- Developed static websites using Gatsby and headless CMS.

🗂 Projects

Portfolio, *Portfolio website with more information about previous projects.* 🔗   05/2020 – present
- Built using Gatsby and deployed on AWS with S3, CloudFront, and Route53.
- Applied AWS Lambda, API Gateway, SES, and Google reCAPTCHA to block spam and send email messages through a contact form.
- Integrated AWS SDK and GitHub actions to streamline continuous integration and deployment.

The Legend of Fnu, *Multiplayer online dungeon exploration game.* 🔗   02/2020 – 02/2020
- Led a team with 2 other developers to produce an Android and iOS mobile application using React Native.
- Developed a Python Django API backend utilizing REST architectural patterns, Django authentication, and PostgreSQL for game state and data persistence.
- Implemented Pusher and web sockets for live chat and player movement.
- Designed an algorithm to randomly generate and connect any specified amount of rooms in the game world.

Community Calendar, *Help create and organize incredible neighborhood and community*   12/2019 – 01/2020
spaces through meaningful shared events. 🔗
- Developed a full stack application for Detroit's Historic North End Alliance on a cross-functional team that included 4 other web developers, 4 mobile developers, and 1 UX designer.
- Communicated remotely using Slack/Zoom and attended daily stand-up meetings to talk about daily project goals, features, and blockers.
- Deployed a Node.js Apollo GraphQL backend on Heroku with 14 resolvers for CRUD functionality to minimize redundancy of data fetched through API calls.
- Designed PostgreSQL database schema for users, events, locations, organizations, and neighborhoods with Prisma.
- Implemented server-side searching through 1 query resolver; allowing users to filter events by GPS proximity, date range, keywords, tags, and price utilizing a Porter Stemming algorithm and Turf.js.
- Integrated Auth0 for single sign on capabilities; granting users the ability to login/register with Google, Facebook, and email.
- Developed frontend web application using React, Webpack, SASS, and Apollo Client for precise state management and caching.

Dev Desk, *Open tickets to ask questions related to programming.* 🔗   11/2019 – 11/2019
- Produced a REST API with 40+ endpoints using Node.js, Express.js, and PostgreSQL, and modeled database schema/migrations using Knex.js for users, tickets, comments, and replies.
- Combined JSON Web Tokens and Bcrypt to authenticate users and hash passwords.
- Defined endpoints allowing users to simultaneously upload images/videos with Express-fileupload and Cloudinary.
- Integrated Slack API to create a bot that allows users to easily see, open, and answer tickets from Slack.

🎓 Education

Lambda School, *Full Stack Web Development/Computer Science* 🔗   08/2019 – 05/2020 │ Remote
- 9 month immersive, collaborative, and hands on full stack web development and computer science program.
- 40+ hours weekly spent using JavaScript, Node.js, React, Express, SQL, GraphQL, HTML, CSS, Python, Django, data structures, algorithms, and more.

University of Florida, *Completed coursework towards BS Computer Science*   08/2018 – 12/2018 │ Gainesville, Florida

Florida State College at Jacksonville, *Associates of Arts*; *With highest honor*   08/2016 – 12/2017 │ Jacksonville, Florida