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SUMMARY

Results-driven Senior Full-Stack Software Engineer with over a decade of experience in designing and implementing SaaS-based enterprise applications. Led the development of Springbig's subscription and digital gift card service to enhance customer retention, while managing an engineering team focused on optimizing marketing and loyalty platforms. Key contributor to LoadNinja, SmartBear's first in-house SaaS product for Fortune 500 clients, with a proven track record of delivering innovative, scalable solutions that prioritize performance and user experience.

KEY SKILLS

- Advanced: React, Node.js, HTML/CSS, Tailwind CSS, AWS (S3, DynamoDB, EC2, Lambda, API Gateway, Step Functions, Cognito, Kinesis, CloudFormation, CDK, AWS Glue), PostgreSQL
- Familiar: C#, C/C++, Java, PHP, MySQL, AngularJS 1.x, Rails, Vue.js
- Spoken Languages: English (native), Spanish (native)
- Operating Systems: Windows, MacOS, Linux

EXPERIENCE

Software Engineering Team Manager / Engineer

Springbig / Boca Raton, FL (Remote) / September 2022 - August 2024

- Led the integration of the platform (**Vue.js, Tailwind CSS, Rails, AWS Lambda, PostgreSQL**) with third-party POS providers, enabling seamless cross-communication of customer information, transactions, visits, and merchant product data, while empowering merchants to send targeted marketing campaigns to customers.
- Co-architected, managed, and helped develop the subscription service (**Vue.js, Tailwind CSS, Rails, AWS Lambda, PostgreSQL**) that is integrated with payment gateway(s), allowing merchants to create paid subscription plans. This service provided customers with exclusive rewards and deals, while generating a new revenue stream through profit-sharing agreements with clients.
- Managed and helped with the development of a service allowing merchants to offer digital gift cards (through an integration with Birchmount) that a customer can purchase and load using loyalty points or a payment card and use it to make purchases at a merchant's store or send it as a gift to a friend (**Vue.js, Tailwind CSS, Rails, AWS Lambda, PostgreSQL**). This allows merchant customers more flexibility in how they purchase products at a store, increasing customer retention.
- Enhanced the bonus loyalty points feature of the platform to allow merchants to set a date range (based on merchant's saved time zone) for when conditions for loyalty point multipliers/enhancers (**Vue.js, Tailwind CSS, Rails, PostgreSQL**) take effect. This ends the need for merchants to manually go into their account and disable a condition when it no longer needs to be applied to customer purchases/visits.
- Reviewed and approved developers' PR's (Pull Requests), ensuring code quality and adherence to standards. Resolved roadblocks by offering technical insights, collaborating with product teams for clarifications, and coordinating with other team leads to facilitate knowledge sharing.

Software Engineer

Springbig / Boca Raton, FL (Remote) / October 2021 - September 2022

- Contributed to a specialized development team tasked with solving complex issues, primarily in **AWS** and occasionally in **Rails** backend, that other teams lacked the expertise to address.
- Enhanced the company's **AWS** infrastructure by developing and modifying deployment pipelines in **AWS CodePipeline**, utilizing Node.js and TypeScript, for **AWS Lambda**, **EventBridge**, **Systems Manager**, **IAM**, and other **AWS** service resources, leveraging **AWS CDK** for resource provisioning.
- Developed an **AWS Lambda** function (microservice) triggered by a daily **AWS EventBridge** rule to import BlueConic CDP customer segments from an S3-hosted CSV file. This data (millions of records) was processed in batches via workers, for targeted marketing campaigns.
- Automated the migration of Postgres tables to **AWS Redshift** by creating deployment pipelines for **AWS Glue** resources and generating **Python** scripts for **AWS Glue** ETL jobs. Personally oversaw the migration of approximately 30 tables to multiple new development environments on **AWS**.

Senior Software Engineer

SmartBear Software Inc / Coconut Creek, FL / March 2017 - September 2021

- Developed, validated, and debugged front-end (**AngularJS 1.x**) and backend (**Java Spring**) code for AlertSite, an API, application, and website monitoring web platform.
- Helped found and develop LoadNinja, a leading load testing SaaS, SPA web platform, from the ground up. Developed using **React (Class Components, Functional Components, Contexts, React Router)** on the front-end in conjunction with **AWS (DynamoDB, Lambda, API Gateway, Cognito, EC2, etc)** and Node.js on the back-end. Allows for the visual recording of load testing scripts, without writing code, and running load tests, all using real Chrome browsers.
- Developed the functionality (**Node.js, Express, React**) of the LoadNinja recorder, running on an **EC2** instance, that allows for the visual recording of website load testing scripts, generated as a Mocha script in real-time, and allowing for the visual replay and saving of the recorder-generated Mocha script. This was achieved by exposing to the end user an active, graphical instance of a headless Chrome browser, shown via browser frames displayed in an iframe on the platform recorder UI, which the user could then interact with and see, edit, save and replay their recorded actions on a website using the recorder sidebar. This was achieved by using **Chrome DevTools Protocol (CDP)** to interact with an the active Chrome browser, capturing the active browser frames, sending them via **WebSocket** to the UI, and capturing user actions on the active browser iframe on the UI and sending those actions via **WebSocket** to the backend recorder to be translated to browser actions executed using **CDP**.
- Developed the logic for correctly and equally distributing load test virtual users across multiple **EC2** instances, spun up for a load test using the scripts, regions and proportions specified by the end user on the UI (**React**), via an **AWS Lambda** microservice written in **Node.js**. The metrics and data returned by the load test scripts running on **EC2** were then shown visually on the platform's (**React**) load test page via a combination of tabs, tables, and graphs (**Highcharts**).
- Developed **AWS Lambda** microservice, written in **Node.js**, that allows for the saving of a recording of a failed load test script iteration using **FFMPEG** as a layer in the **Lambda** function to piece together the gathered image frames of the script

iteration playback into a single video which is then saved to **S3** so that the user may view the video in their load test report on the **React** frontend, after the load test has completed.

- Helped mentor new team members and helped them get familiar with the codebase.
- Worked with team lead to figure out the feasibility of and architect new features using personal overall knowledge of the LoadNinja platform.
- Worked with customer support, and at times directly with customers, to help identify and fix individual or overall platform issues.

Intern Software Developer

QQ Solutions / Deerfield Beach, FL / May 2010 - December 2016

- Developed, validated, and debugged front-end (**HTML, CSS, JS [AngularJS 1.X]**) and back- end (**.NET**) code for internal tools website used by Product Support.
- Developed, validated, and debugged Windows Form tools written in **C#**.
- Reviewed, analyzed, and modified the **VBA** source code and layout of Microsoft Access Forms.

EDUCATION

Florida Atlantic University / Boca Raton, FL

B.S. Computer Science / December 2016

University of Central Florida / Orlando, FL

A.A. / August 2015