Vivek Ravula

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PROFESSIONAL SUMMARY

A Senior Developer with extensive experience in Frontend, Android, and Software Engineering. Demonstrated success in building, leading, and managing high-performance teams for large-scale development projects at Lucid, Bass pro, Bayer, and Waystar.

Education

Year	Degree	Institution/Board
2011	Masters in Computer Science	Herguan University, Sunnyvale, CA
2008	Bachelors in Technology CSE	Vardhaman College of Engineering India

Work Experience

1 LUCID Lucid Motors   **Senior Full stack Developer Link**   Jan 2019-July 2023

At Lucid Motors, I worked on a frontend Development project that involved creating a web platform forelectric car owners. The project included building a web application for customers to manage their vehicle settings, charging availability, and other features related to their electric vehicles. This included creating a user-friendly interface for customers to manage their vehicle settings, charging availability, and other features related to their electric vehicles. Additionally, I worked on the back-end architecture and database design for the platform. I also implemented various APIs from third-party vendors to integrate with the platform. Also, I worked with the rest of the development team to ensure the proper functionality and scalability of the platform.

My responsibilities included the following:

- Developing, deploying, and maintaining full stack web applications and backend services using technologies such as Node.js, React, Java, and Amazon Web Services.
- Working on front-end and back-end development to create user-friendly web applications and APIs.
- Collaborating closely with product managers to define features and ensuring flawless execution of product requirements. Leveraging test-driven development (TDD) to ensure high quality software solutions.
- Involved in daily SCRUM meetings to keep track of the project status.
- I have worked on several projects where I was responsible for developing our web-based product and implementing TDD (Test driven development)
- My responsibilities included unit testing with a testing framework such as Jasmine, integration testing, and end to end testing. I also established automated continuous integration (CI) processes for automated execution of unit and integration tests.
- Developed software solutions in C#, .NET and MVC for web technologies as a full stack developer
- Actively monitoring application performance and resolving technical issues.
- I have had the opportunity to experience agile development processes in multiple projects over the last year.
- Developing software platforms with scalability and maintainability in mind.
- I've led both **onshore and offshore** teams in the past. I have managed offshore teams based in several time zones.I've managed remote teams from all around the United States in addition to offshore teams.

    Some project highlights include:

- Optimized performance of the React applications by using custom DOM manipulation techniques and by using React and Redux performance-related techniques.
- I have developed web applications using the most recent versions of Angular (currently 13/14) as well as AngularJS (1.x) Implemented core AngularJS services such as Services, Directives, Filters, and Controllers
- I utilized Java to build the Angular application's REST API backend (this API was used to store and retrieve data from a MySQL database, as well as conduct numerous CRUD tasks).
- With React native I've Developed an iOS and Android version of an educational course platform for a global client, featuring high interactivity and extensive customizations
- Included in creating a web API for the Lucid Air EV's Bluetooth connectivity system, developing a ReactJS website for managing Lucid account customers, and designing and developing a highly-scalable micro-service for maintaining vehicle data.
- I was responsible for setting up and maintaining DevOps processes for all of our products.
- Developed GraphQL APIs for managing vehicle inventory, customer information, orders and other related data. The micro-service was using a C# .Net Core backend backed by a powerful MongoDB database. In addition, I also created a set of authentication scripts using ASP.NET Core Identity for Lucid Air's web services.
- Built several custom web services utilizing .NET framework, connecting a variety of web forms and databases with a central service to track user activity. I was a key team member in the development of a customer portal using the Microsoft asp.net MVC stack that allows customers to access information about their purchase and discuss their needs

with customer service agents via a chat interface.
- As part of a larger project, I developed several web pages for Lucid's web-based vehicle registration and maintenance system using ASP.NET and C#. I also developed a few integrations for other services with the Lucid Air EV, like integrating with Google Maps, Microsoft's Bing Maps, and OpenStreetMap. Overall, my experience with C# and ASP.NET was highly valuable in developing and maintaining the complex array of projects Lucid had in development.
- I have gained experience in DevOps tasks such as automation, cloud infrastructure, continuous integration/delivery, deployment, security, and monitoring.
- I have also implemented responsive designs using Java Server Faces (JSF) and Java Server Pages (JSP) also built web pages using HTML, CSS, and JavaScript. And also utilized Spring Framework and Hibernate for database connectivity and server-side programming. Developed applications using various Angular versions like Angular 8+ and Angular 7
- I have developed user-friendly applications using core Java technologies such as JavaFX, Swing, and AWT
- and created robust user interfaces for web and mobile applications.
- I was a key team member in the development of a customer portal using the Microsoft asp.net MVC stack that allows customers to access information about their purchase and discuss their needs with customer service agents via a chat interface.
- I have gained experience in DevOps tasks such as automation, cloud infrastructure, continuous integration/delivery, deployment, security, and monitoring.
- Another project I worked on was an internal tool built in C# and the .NET framework that the team used to manage customer orders and track customer purchases. This tool provided a list of customer orders and allowed users to quickly search for information and access customer order details.
- Finally, I was also part of a larger project to re-architect the entire platform to .NET Core and ensure its ongoing scalability. This re-architecture included my reimplementing the essential components with modern technology and making sure the APIs, databases
- Developed and deployed an ASP.NET application with C# and .NET Core technology for the company's web platform. This included full stack development involving front end interface and back-end database integration.
- Developed interactive user interfaces using Python with the help of PyQt, Tkinter, wxPython and React Created robust database-driven websites with Python-based web frameworks
- Created AJAX calls to consume and manipulate RESTful API services for data manipulation, retrieval, and display.
- Developed different types of reusables React components using best practices and methodologies.
- Utilized React and Redux to create component-based applications. Ensured quality development of React components through extensive unit testing. Developed web APIs using RESTful service and interacted with them using Axios React library. Built reusable React components, that can be used across applications
- As the project's lead developer, my tasks included designing the database structure, building AWS Lambda functions and trigger events, configuring AWS IAM roles, setting up data encryption, creating databases and tables, and managing access rules. Additionally, I wrote the appropriate AWS SDKs to interact with DynamoDB, set advanced data security policies, and evaluated database performance.
- Developed and maintained NPM packages using Node.js for creating high-performance system components
- Utilized NPM to install and update dependencies for web applications
- Utilized Entity Framework Core and SQL Server to develop and maintain a secure and robust back-end database for data storage and queries.
- Developed Object-Relational Mapping (ORM) using LINQ to create queries that allowed for data retrieval from the back-end databases.
- Tuned and optimized the applications for performance improvements and scalability also Implemented N-tier architecture for robustness and scalability.
- Implemented a .NET Core microservice architecture to provide a highly-scalable backend. This enabled the backend to scale up/down quickly and reduce back-end costs for the company.
- Used C# and ASP.NET to develop web applications that served as the back-end systems for the company's website
- Using JDK 11 I have built a library for real-time messaging, machine learning and cloud computing. I developed custom algorithms for natural language processing and object recognition technologies.
- Experience of working with web services in .NET using ASP.NET 4.0/4.5/C#.NET/VB.NET/Entity Framework
- Developed Single Page Applications (SPA) using Angular, including routing and templating. Implemented Component-Based Architecture (CBA) to create reusable Angular components/modules.

Achievements

- Developed a web-based application for monitoring and controlling the production process which increased productivity by 30%.
- Developed a mobile application that enabled remote monitoring and control of production processes, which increased customer satisfaction by 40% I built multiple API's that connected the various applications, helping to create a unified experience across the Lucid Motors suite of products.
- In addition, I have optimized code for better performance and look-and-feel. Lastly, I have collaborated with other developers throughout the design, testing, and deployment process to ensure the highest quality of the application.

2   **Senior Frontend/UI Developer** **Link**   Oct 2014-Dec2018

My project was to develop a Single Page Application (SPA) for the Bass Pro website. This included developing a responsive and interactive user interface using React.js and a RESTful API backend. The SPA allowed users to search for products, read product reviews, check availability, and add products to their cart. It also included features such as product filtering, product comparison, and checkout.

I helped design and develop customer-centric technology solutions that exceed customer requirements and expectations. I researched and applied the most up to date technologies to real world solutions and provided technical guidance to junior team members

As a Senior Frontend Developer at Bass Pro, my responsibilities included:

- Developing and maintaining web-based applications and websites.
- Ensuring website and applications are visually appealing, mobile-friendly, and meet industry standards.
- Testing and debugging applications and websites, fixing bugs and performance issues.
- Integrating frontend applications with other third-party software and services.
- Optimizing website content to ensure maximum usability, look, and feel.
- Creating and maintaining technical documents regarding web-based products
- Collaborating with other departments to design new front-end features that optimize user experience and website performance Keeping up with industry trends and best practices in the web development field.
- Re-designing and restructuring the entire company website, improving load speed and search engine optimization
- Establishing industry best practices for front-end development, ensuring consistency and efficiency in future projects

Some project highlights include:

- Implemented type-script/JavaScript (ES6) for custom UI and reusable classes across frontend. Extended HTML's
- vocabulary by using custom attributes and elements.
- Leveraged AngularJS for two-way data binding, form validation, routing and client-side templating. Used angular JS's
- Developed an interactive dashboard to track the performance of the automotive sales using Vue.js.
- Developed and maintained internal tools with C# and .NET Core to support data warehousing and ingesting of large volumes of data.
- features such as dependency injection, MVC and modularization.
- I've also worked on AEM environment setup, content model development, permission group administration, and the development of custom AEM components.
- Built ASP.NET Core Web APIs and services to interact with backend databases and to provide service-oriented architecture
- Collaborating with DevOps and other teams to design and develop backend services
- I also worked on a mobile application built in .NET Core and Azure Cloud that allowed customers access to their online account and purchase information along with the ability to purchase additional items.
- Developed responsive websites and applications, leveraging Python frameworks such as Django, Flask, and Pyramid. Leveraged Python libraries to build rich data visualizations and dashboards.
- I utilized Node.js to build server-side applications, with Express.js serving as the web framework.
- For the front-end of the applications, I utilized Node.js in conjunction with Angular.js, React.js, and Vue.js.
- I've managed source code, tracked changes, and collaborated with other engineers using version control systems such as Git, Subversion (SVN), and Mercurial.
- Experienced with JIRA for issue tracking and project management & Implemented responsive Web Designing using Bootstrap. I have experience with the Adobe Target tool for personalization and have worked on integrating AEM with third-party systems.
- Created C# backend services to enable integration with other systems such as the finance team
- Implemented and debugged ASP.NET web applications with C# and AJAX to streamline business processes
- I was responsible for designing, coding, and developing complex React Native applications.
- On the back end, I have developed RESTful API using Java and used Hibernate and JPA for object relational mapping, and database management also used Apache Tomcat server to run and deploy my application.
- I utilized Java to build the Angular application's REST API backend (this API was used to store and retrieve data from a MySQL database, as well as conduct numerous CRUD tasks).
- Developed complex single page web applications (SPAs) using React 16, Redux, Flux, Webpack, and Node. Used the React JS virtual DOM for interactive and reusable HTML
- Leveraged React lifecycle methods to manage resource allocation, data fetching, and dynamic props passed.
- Developed single page applications (SPA) using Vue.js 2 and its ecosystem. Utilized Vue.js for two-way data binding, form validation, Vue-router and Vuex for state management.
- Configured DevOps pipeline for deploying the service using Jenkins, Gradle and SVN
- Created and maintained user interface components with Angular 8, HTML, CSS, and JavaScript. Additionally, I have used Vuex to manage the application's state and have utilized the Axios library to make API calls.
- I audited the existing systems to ensure that they followed PCI protocols and made any needed adjustments to the code & also Created custom webpages and API endpoints for e-commerce apps.
- Developed user-friendly, interactive, and responsive e-commerce interfaces in accordance with UI/UX standards.
- Created a user-friendly design for the product page, shopping cart page, checkout page, and payment gateway.
- Developed components with HTML, CSS, and ES6 conventions for custom logic and application structure, from scratch.
- Deployed the application to production environment using DevOps tools like Jenkins, Maven, Gradle etc
- Developing Devops tools to deploy and manage applications in a consistent way across different environments.
- Developed web UIs with cutting-edge technologies like HTML5 and jQuery. Utilized jQuery features like Dom manipulation, event handling, and Ajax calls.
- Integrated backend APIs with the Vue.js frontend application to persist data in the database. & Implemented a payment gateway using Vuex Store for customers to purchase products.
- Creating interactive cross-browser compatible websites from design mockups using HTML5, CSS3, JavaScript, and jQuery also Contributing to the successful launch of several mobile applications for Bass Pro customers
- Constructed web forms with validation and customized scripts for client-side input validation, error handling.

Achievements

- Implemented a new inventory management system that reduced product turnaround time by 40%.
- Developed a web-based retail platform that increased customer engagement by 20%.
- Developed a billing module with best-in-class security measures to ensure user data and transactions are kept secure.
- Developed and maintained a robust documentation library, which significantly improved customer support.

3   **Android Software Developer Link**   July 2013-Aug 2014

As an Android software developer at Bayer, created and developed innovative and high-quality applications for Bayer's customers and ensuring they are technically sound and perform optimally. I was responsible for creating these applications using innovative and cutting-edge technologies such as Java, Kotlin, and other frameworks as well as debugging and testing the applications created. Additionally, I was responsible for attending design review meetings and providing feedback to colleagues as well as keeping up with the changing trends and technologies in the industry by researching and staying informed. I was also expected to ensure application security and maintain application standards as per Bayer's policies.

I had a number of core roles and responsibilities:
These included the development and maintenance of applications for Bayer's products and services, from concept to implementation;

- Developed applications for Android OS and integrated with back-end services
- Analyzed user needs and worked with designers to create intuitive user experiences
- Collaborated closely with various product teams, software developers, testers, and project managers
- Worked on developing, testing, releasing, and maintaining Android applications
- Participated in requirements analysis, problem solving, bug-fixing, and technical support
- Performed code reviews to ensure product quality
- Integrated 3rd party APIs in mobile applications
- Optimized applications for optimization and performance
- Maintained code quality and organization
- finally, deploying the applications to the app stores. In addition, I was also responsible for developing and maintaining technical documents, training materials, and other resources related to the product.

Some project highlights include:

- Developing applications for Android platform using Java, Kotlin, Android Studio, and other popular tools
- Proficient in working with Android APIs, Android NDK, and platform SDKs
- Creating features and implementing them in the application Working with SQLite database to perform various database operations Troubleshooting and fixing bugs in Android applications
- Designing and developing user interfaces using XML layouts, Views, and other UI elements.
- Working with databases, such as SQLite, to store and query data from an Android device.
- Integrating third-party libraries and APIs to facilitate tasks such as audio/video streaming, image editing, etc.
- Developing code that follows robust principles of testing and proper coding practices.
- Developed multiple distributed and micro service solutions using Java/J2EE technologies
- Implemented and maintained SOAP/RESTful API services using Java/J2EE
- Used multi-threaded programming to optimize the performance of web application Developed desktop and mobile applications with C# using Visual Studio
- Creating and maintaining platform independent mobile apps by using hybrid frameworks such as Ionic and React Native. Working with Git version control, and other integrated development workflows
- Experienced in Agile and Scrum software development methodologies
- Proven experience in designing and writing efficient code Understanding of web services, REST APIs, JSON and XML
- Experienced in publishing applications to the Google Play Store & Conducting system analysis, designing, coding, testing and debugging of Android applications
- Developed Android user interfaces with UI layouts, designs, widgets, resources, navigation and other UX components.
- Integrated 3rd party library APIs and SDKs such as Rest, JSON, Volley, Picasso, Butterknife etc.
- Developed custom views and integrated with back-end API.
- Implemented unit and integration tests with Karma and Jasmine to ensure the quality and accuracy of the application. Troubleshot performance and other issues in Android applications.
- Write unit test cases with JUnit/Mockito frameworks for Android applications.
- Developed and tested apps using Android framework tools (Android Studio, IntelliJ).
- Utilized Android emulator tools to test, debug and QA applications.
- Utilized various Vue.js Components to develop the UX/UI of the application.
- Participated in design review to ensure sound application architecture.
- Created and updated technical documents such as Use Cases, Design Document.

Achievements

- Developed a web-based application for managing customer orders which increased customer satisfaction by 30%.
- Developed a mobile application that enabled customers to track orders, which increased customer engagement by 15%

4 WAYSTAR **SOFTWARE ENGINEER** link August 2011- June 2013

While working as a software engineer at Waystar, my main roles and responsibilities included:

- Developing new features for Waystar's web application according to software engineering best practices
- Building high-performance, reusable, and reliable code
- Collaborating with the product team to define and implement user interface components for new features
- Participating in all stages of software development, including design, coding, testing, and maintenance
- Troubleshooting and resolving software bugs and other technical challenges
- Optimizing the front-end performance to improve user experience. Ensuring code quality and product stability
- Participating in code reviews and providing feedback to other development team members
- Keeping up to date with the latest development trends and industry standards5. Implemented a secure payment gateway to enable customers to make payments securely.
- Implemented a cost-effective solution to integrate third-party services and APIs.
- Developed an advanced search engine to improve website navigation.
- Optimized website performance and improved loading time by 25%.
- Automated the deployment process to reduce the time and cost of deploying applications.
- Developed a secure and reliable backend to ensure data integrity.

Work experience

- I implemented security measures for web applications such as authentication and authorization. I was also in charge of debugging apps and giving technical help as needed.
- Developed front-end code using HTML, CSS, and JavaScript libraries, as well as version control systems such as Git and SVN. Also Created a variety of screens utilizing JavaScript, HTML, and CSS.
- I also worked on updating the application's codebase and ensuring the application's performance was optimized. In addition, I worked on the application's unit tests, end-to-end testing, and automated tests.
- Designed and developed an application-based MVC framework using Angular.js, HTML 5.0, and CSS3 collaboratively in an agile scrum team.
- Developed UI using Python, HTML5, JavaScript, and CSS, building mobile-responsive functionality
- Designed and built a mobile web application publishing framework component library using AngularJS.
- I built Restful API endpoints with Flask and solved computationally hard problems with C++.
- I made advantage of NPM's Package. Son file to handle the dependencies of my project
- Developed web applications using Java, J2EE, Servlets, JSP, AJAX, HTML, CSS, JavaScript, and jQuery. I also worked with Oracle, SQL, and HTML to create applications.

Courses

Front-End Web Developer Learning Path   lynda.com®

The Complete JavaScript Course   udemy

Skills

Technology	Java/J2EE, Python, Reactjs, Angular, JavaScript, CSS, HTML, C++, AWS C#
	Bootstrap, Material UI. Jasper reports, jasper studio, GitHub, Jenkins, Sonar etc. (Comfortable in configuration setup and utilization)
Software frameworks & tools	Spring boot, spring security, spring data JPA, unit testing Junit and Mockito, React hooks, redux, react testing library, Bootstrap, Material UI. Jasper reports, jasper studio, GitHub, Jenkins, Sonar etc. (comfortable in configuration setup and utilization)
Software Packages	Spring Boot, JPA, React, Bootstrap, Maven, Gradle, Tomcat, MQ, Kafka
Database	PostgreSQL, MySQL, SQL server,
Additional Courses Taken	Data Structure
Activities	Participating in hackathons and coding challenges, attending local meetups and conferences, contributing to open-source projects, writing technical blog posts, Creating and maintaining technical documentation, mentoring other developers, Presenting at industry events

Co-Curricular Activities

- Led a team of developers through many project challenges in Lucid Motors and Bass Pro (group of the bestperforming Developers of Lucid).
- Karate-Black Belt and Football-State player
- Trained Many Clients for the fitness program