MICHAEL HANKS

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PROFESSIONAL SUMMERAY

With over 10 years of experience, I am a skilled Software Development Engineer proficient in front-end and back-end development, as well as distributed systems. I have successfully executed numerous projects utilizing various technologies, including React.js, Angular, Next.js, and Vue for the frontend, and Node.js, PHP, and .NET for the backend. Additionally, I am well-versed in working with diverse databases such as MongoDB, AWS DynamoDB, MySQL, MS SQL, PostgreSQL, and Azure SQL Database. Furthermore, I am a results-oriented AI Engineer specializing in natural language processing and deep learning techniques, dedicated to creating innovative solutions that enhance customer experiences and optimize operational efficiency. I have a solid foundation in object-oriented programming languages such as Python, C#, C++, and Java, with experience in solving algorithmic problems. I consistently adhere to modern development methodologies, particularly the scrum methodology, and excel as both a collaborative team player and an independent contributor. In leadership roles, I have effectively overseen code reviews, collaborated with project managers and clients, and ensured the successful delivery of projects by enhancing team performance.

TECHNOLOGY SUMMARY

Languages:	HTML, CSS, JavaScript, TypeScript, C++, C#, Python, Java, PHP, Go
Technologies and Frameworks:	Bootstrap, Tailwind CSS, MUI, React.js, Redux, Angular, Express.js, Node.js, Nest.js, Vue, Vuex, Vuetify, GraphQL, ASP.NET, ASP.NET Core. WPF, Laravel,
DBMS:	MY SQL, MS SQL, PostgreSQL, MongoDB, AWS DynamoDB, Azure SQL Database
IDEs and Tools:	Visual Studio, Visual Studio Code, Docker, CyPress, Jest, Jasmin, Redux DevTools, Azure DevOps, IIS, Git Bash, PowerShell
Other skills:	AWS Cloud Services, Microsoft Azure, Critical Thinking, Algorithm Design, Team-Oriented, Agile(Scrum), Problem Soving, Software Testing, Team management

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KEY TECHNICAL SKILLS

Front-end development

- Front-end development using React.js, Next.js, Angular, Redux, NgRx and jQuery
- Testing with Jest, Cypress and Jasmine
- REST API, and GraphQL
- WebPack and Babel for bundling web applications

Back-end development

- Web application development with Node.js, ASP.NET Core WebAPI and Entity Framework Core, Go

- MongoDB, AWS DynamoDB, MySQL, MS SQL, Azure SQL Database, PostgreSQL databases and AWS, Microsoft Azure cloud services
- Unit testing with Jest and Jasmine

Database

- Experience in designing databases for distributed systems
- Experience with optimizing long-running queries by MongoDB aggregations
- Knowlege of scalability techniques for scaling databases

AI & Machine Learning methodologies

- Proficiency in AI and Machine Learning algorithms
- Deep Learning expertise
- Natural Language Processing (NLP)
- Experience with AI platforms and frameworks (like TensorFlow, PyTorch)
- Machine learning model development

DevOps

- Experience with Ubuntu and Windows operating systems
- Experience in automation using provisioning tools like Jenkins
- Experience with GitHub Actions
- Experience with CI tools: AWS CodePipeline, Azure Pipelines and Gitlab

Mobile development

- Experience with React Native, Java, and Android
- Experience with tools: Android Studio, Eclipse

Development methodologies

- Agile, Waterfall
- Unit, integration and e2e testing
- OOP, SOLID
- Clean and team-oriented code

PROFESSIONAL EXPERIENCE

Splashtop Inc   *Jun 2021- Mar 2024*

Senior Software Engineer

Memorial Keeper - a virtual tribunal web application where people can share memories about their loved one who passed away.

Main achievements and responsibilities:

- Led a team of 4 members to develop several Saas platforms and related Windows applications with React.js, Angular, Next.js, MaterialUI, Angular Material, MongoDB.
- Designed effective database table structures and optimized HTTP requests.
- Was responsible for building an auto-changing theme provider, dashboard, task management, and statistics pages using Next.js.
- Improved the first loading time of the website by integrating server-side rendering components and client-side rendering components in Next.js.
- Designed and developed a reusable React.js and Angular component library for future use, resulting in a 30 % reduction in development time for this project.
- Used Redux, Redux Toolkit, and NgRx for state management of web applications.
- Implemented advanced optimization methods for React and Angular applications, utilizing lazy loading, code splitting, efficient data caching, and efficient state management.
- Used various styling frameworks and libraries like Styled-components, Material-UI, Angular Material, Tailwind CSS, SCSS.

- Collaborated with the Scrum Master, the Product Owner, and Customers during development processes to confirm creative proposals and design best practices.
- Tested the product functionality by React Testing Library, Jest, CyPress, and Jasmine.
- Reviewed the team members' code to improve the project's performance and reduce bugs.
- Contributed to implementing procedures for collecting client requirements for solution demonstrations.
- Created new RESTful API services using Golang to serve as middleware between our application and third-party APIs that we utilized.
- Utilized lazy loading, caching, and third-party libraries such as React Virtualized to optimize the program.

Used languages and technologies: JavaScript, TypeScript, React.js, Next.js, Angular, Vue, MaterialUI, Redux, Redux toolkit, NgRx, RxJs, React Testing Libray, CyPress, Jest, Jasmine, Node.js, ASP.NET Core, MongoDB, WPF, Git Bash, PowerShell, RESTful Apis, GraphQL, Golang

Homebase   *Oct 2016- May 2021*

Senior Software Developer

Healthy - A healthcare application enabling doctors and patients to schedule meetings, while also allowing doctors to monitor patient health with detailed information including temperature, heart rate, blood pressure, and more.

Main achievements and responsibilities:
- Was responsible for developing 3 websites including Sass platform using React.js, Angular, Next.js, Node.js, MongoDB, ASP.NET Core, MS SQL, AWS DynamoDB, GraphQL and the AWS/Azure cloud services.
- Led a team of 5 developers working with React and Angular.
- Designed dynamic and multi-browser compatible pages using HTML5, CSS3, SASS, React.js, and Angular.
- Exclusively used Reac-Hooks to handle application life-cycle processes.
- Implemented CSS Box Model and styled web pages using CSS preprocessor SASS and effectively used mixins, functions, custom grid systems, grid-area concepts and flexbox for fluid-responsive applications.
- Built custom React and Angular components for UX-Libray consisting of Accordion, Filters, Dropdown, Carousel, Button, Checkbox, Input, and Icons.
- Implemented chat system using Socket.io and used Apollo GraphQL to build Backend APIs.
- Applied Scrum principles to develop projects rapidly and satisfy customers.
- Worked as a Product owner to develop a festival website and successfully launched the project.
- Collaborated closely with project managers, and customers to lunch the projects successfully and meet the deadline.
- Implemented the latest ECMAScript6 (ES6) features to enhance code standards and maintainability.
- Optimized the performance using caching library like react-qurey, TanStack query, Ng cache.
- Implemented advanced optimization methods for React and Angular applications, utilizing lazy loading, code splitting, efficient data caching and state management.
- Worked hard to implement sprint backlogs in a short period and guarantee excellent performance.
- Contributed to hands-on work on front-end and back-end development tasks.
- Wrote test code using Jest, React Testing library and Jasmine.
- Implemented ASP.NET MVC Routing, refactored code to enhance application readability, optimization, and maintainability, and employed MVC bundling to boost application performance.
- Took charge of designing authentication for the ASP.NET application using .NET Framework, Model View Controller (MVC) ,and the IIS security model.

Used languages and technologies: JavaScript, TypeScript, React.js, Redux, Redux toolkit, WebSocket, Angular, RxJs, Next.js, SASS, Node.js, MongoDB, ASP.NET Core WebAPI, MS SQL. AWS DynamoDB, GraphQL, AWS/Azure cloud services, Git Bash, PowerShell, Tailwind CSS, Bootstrap

Meditab Software Inc   *Jun 2014 - Sep 2016*
Web Developer

> **Investment Portfolio Tracker** - a project in the financial industry, designed to help users monitor and manage their investment portfolios. It provides real-time data on stocks, bonds, and other securities, enabling users to monitors the performance of their investment

Main achievements and responsibilities:

- Maintained high-level expertise in React, and Angular state management strategies, including Redux and NgRx
- Integrated with backend services using SignalR to display real-time data, such as prices and portfolio performance.
- Incorporated chat libraries like Chart.js and D3.js to visualize investment data and analytics.
- Designed, developed, and tested HTML5, CSS3, Bootstrap, JavaScript, JQuery, and React.js that meet accessibility and web browser standards for websites.
- Developed several reusable React and Angular Components for future use.
- Optimized the frontend using caching, code splitting, and lazy loading.
- Used front-end testing libraries like Jest, Cypress, and Jasmine.
- Experiencing using ASP.NET, MVC, and AJAX framework for quickly creating efficient and interactive Web applications that work across all popular browsers.
- Experience in .NET security features such as Authentication(Windows-based Authentication, Form-based authentication) and Authorization(Authorizing Users and Roles).

Used languages and technologies: JavaScript, TypeScript, React.js, Redux, NgRx, jQuery, WebPack, Babel, Node.js, Jest, Cypress, Jasmine, ASP.NET Core MVC, ASP.NET Core WebAPI, Azure cloud services, Azure SQL Database, MySQL, PostgreSQL, HTTP caching system, Azure DevOps

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EDUCATION

Bachelor in Computer Science

Southwestern Oregon Community College