

Adam Sutton

Senior Software Engineer

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Professional Summary

As a dynamic and innovative senior Engineer with over 10 years of experience in designing, developing, and implementing scalable and secure applications, I am skilled in Node.JS development, with hands-on experience in building complex web applications, microservices, and APIs that handle high traffic and data volume. I have extensive experience in working with GCP services like Cloud Functions, App Engine, Kubernetes, and Firestore, and expertise in integrating third-party services like Stripe, Twilio, and SendGrid.

I have led the development of a high-availability and fault-tolerant payment gateway using Node.JS, which reduced transaction failures by 30% and increased throughput by 50%. Additionally, I architected and implemented a scalable and secure backend for a social media platform using GCP, which handled 1 million daily active users and achieved 99.99% uptime.

Passionate about working with startups and bringing innovative ideas to life, I am skilled in working in fast-paced, agile environments and collaborating with cross-functional teams to achieve project goals. As a Principal Engineer with extensive experience in Node.JS, Restful APIs, GCP, and other relevant technologies, I am confident in my ability to provide technical leadership and drive business success for a startup company.

Skills

- **Front End Development**
Semantic HTML5 | CSS3 | media queries | animations | Photoshop | SEO
- **React**
JSX | Hooks | Material UI | React Context | Styled Component | Redux | Next.js
- **Vue/VueX/Nuxt.js**
- **Angular/ngrx**
- **Spring Boot**
- **SCSS/Sass/Less/Stylus**
- **JavaScript, ES6+, C/C++, TypeScript, React Native, Python, PHP, Java**
- **UI/UX**
- **npm & yarn**
- **Unit & Integration Testing**
Jest, Enzyme, Cypress, React Testing Library, Mocha, Jira, Jasmine, Chai
- **Debugging**

Professional Experience

Senior Software Engineer, ArcTouch, San Francisco, CA Nov 2020 – May 2023 (Remote)

As a Senior Engineer at ArcTouch, I provided technical leadership and mentorship to junior engineers while driving the development of scalable and secure applications using Node.JS, Restful APIs, GCP, and other relevant technologies.

- Collaborated with the product team to develop a high-availability and fault-tolerant payment gateway using Node.JS and Stripe.
- Improved transaction throughput by 50% and reduced transaction failures by 30% through the use of advanced caching and error handling techniques.
- Successfully integrated the payment gateway with the company's existing e-commerce platform, resulting in a 20% increase in revenue within the first month.
- Worked with a team to develop and launch a Node.js-based e-commerce platform, utilizing technologies such as Stripe for payment processing and SendGrid for email notifications
- Led the development of a scalable and secure backend for a social media platform using GCP and Firebase.
- Designed and implemented a microservices architecture using Cloud Functions and App Engine, which handled 1 million daily active users and achieved 99.99% uptime.
- Integrated third-party services like Twilio and SendGrid for SMS and email notifications, respectively.
- Implemented real-time communication and data streaming capabilities in a Node.js-based chat application using WebSockets and Socket.io
- Collaborated with team members including web designers, QA testers, and developers
- Worked with NPM commands and using package.json for managing dependencies and dev dependencies of Node JS applications
- Built and deployed a RESTful API using Node.js, Express, and MongoDB to power the backend of the e-commerce application mentioned above
- Utilized Node.js streams to improve performance when handling large amounts of data

- **CSS Frameworks/Libraries**
Bootstrap 4, MUI, Tailwind, Ant
- **Responsive Design**
- **SQL, Oracle, PostgreSQL, MongoDB**
- **GCP/AWS**
- **CI/CD**
- **GraphQL**
- **Docker and Kubernetes**
- **Node.js, Express.js**
- **AWS, Azure, Micro Services**
- **RESTful APIs**
- **Sketch**
- **Figma**
- **Software Development and Architecture**
- **Performance Optimization**
- **Knowledge of SEO**
- **Troubleshooting and Quality Control**
- **Source and Version Control: Git, GitHub, Bitbucket, SVN**
- **Agile Processes**
- **Scrum methodology**
- **Cross-Functional Collaboration**
- **Front-End and Back-End development**
- **Flask**
- **Socket.io**
- **Strong Analytical skills**
- **Good Communication and Interpersonal skills**
- **Creative thinking skills**
- **Decision-making skills**
- **Problem-solving skills**

- Implemented user authentication and authorization using JSON Web Tokens (JWT) and bcrypt
- Worked with a team of developers to implement features such as product search and reviews using Node.js and MongoDB
- Created the platform from the ground up through NodeJS, and PostgreSQL in a client-server architecture
- Worked with NPM commands and using package.json for managing dependencies and dev dependencies of Node JS applications.
- Integrated RESTful APIs written in Express for getting data sets stored in MongoDB
- Architected and built web applications that were both performant and maintainable using NodeJS, Express, MongoDB, and REST API
- Hands-on experience with Cognito, amplify, EC2, ECS, ELB, S3, RDS, SNS, SES, Lambda, Storage Gateway, Dynamo DB and Auto scaling in AWS
- Deployed and managed multiple web applications using AWS Elastic Beanstalk and EC2 instances
- Utilized AWS S3 to store and manage user-generated content such as images and videos
- Implemented serverless functions using AWS Lambda to handle background tasks such as image processing and email sending
- Utilized AWS DynamoDB to store and retrieve data in a scalable and efficient manner
- Monitored and troubleshoot applications using AWS CloudWatch and X-Ray
- Build Kubernetes on AWS with Route53 from scratch
- Worked with Git for version control and had experience in working in a team environment following Agile development methodologies
- Wrote unit tests for the React components using Jest and Enzyme

Full Stack Engineer, Paylocity, Chicago, IL

Nov 2018 – Oct 2020

- Architected and developed a real-time analytics dashboard using NodeJS, WebSockets, and Google Charts API.
- Designed and implemented a scalable and fault-tolerant architecture using Redis and Pub/Sub.
- Improved the company's ability to monitor and analyze user behavior in real-time, resulting in a 30% increase in user engagement.
- Developed front-end UI using HTML5, CSS3, JavaScript, jQuery, jQuery plugins, Bootstrap JSON, React
- Used React hooks such as useState, useEffect, useSelector, and useDispatch
- Built reusable components and had a strong understanding of component lifecycle
- Implemented the application's UI using component-based architecture in React
- Managed the application's state using Redux and integrating it with the React components
- Worked with a team of developers to implement features such as product filtering, sorting, and pagination using React hooks.
- Collaborated with the design team to ensure the application's UI was responsive and accessible
- Had opportunity to work on a project where we migrated an existing Angular application to React
- Implemented responsive design using CSS Grid and Flexbox to ensure optimal user experience on all device sizes
- Worked in agile sprints building new features and enhancing existing areas of our tools using Next, React.js, MySQL, AWS, and Web3
- Worked on an internal app for obtaining the survey ID using React/TypeScript & REST API
- Managed state globally with React hooks/Redux/Redux toolkit/Context API
- Worked closely with the Product team to deliver quality features in high-quality code and best practices

- Implemented form validation features, creating custom Angular services to query data from back-end API
- Implemented workflows of authentication and authorization using AWS Cognito
- Collaborated with web designers, Backend developers, and UX designers to build, design, test and improve web products.
- Improved data fetching by leveraging GraphQL capabilities to narrow a set of queried fields
- Closely worked with Kafka Admin team to set up Kafka cluster setup on the QA and Production environments
- Contributed to the development of technical project documentation and user documentation

Back End Engineer, Red Ventures, Chicago, IL

Mar 2016– Oct 2018

- Developed responsive client-side applications to integrate with server-side using JavaScript, jQuery, AngularJS, NodeJS, Vue.js, and Bootstrap
- Developed a tour booking website in Angular and NodeJS
- Designed and edited templates for Angular framework
- Programmed user interfaces and front-facing functionality based on design mockups
- Developed and maintained critical components of the e-commerce website, including the shopping cart, quick view, and checkout page, using React components
- Contributed unit & integration tests to existing projects to ensure the functionality of the application operates as expected
- Designed, developed, and maintained websites utilizing HTML, CSS, and JavaScript libraries and frameworks such as React and Next.js
- Used React-Router to turn an application into Single Page Application
- Created reusable UI components with React/TypeScript and SCSS
- Refactored existing codebases to improve efficiency
- Developed interactive features of social media web application and contributed creative ideas to the improvement of the platform, most of which were accepted and applied
- Reviewed and improved old UI to help establish a consistent design system that strengthened brand identity
- Used Middleware, Redux-Saga in application to retrieve data from Back-End
- Spearheaded the creation of an open-source, reusable UI component library in conjunction with the design team to accelerate the development of React applications
- Collaborated with the Agile product team on the redesign of the customer-facing website to include new front-end technology and modern JavaScript functionality, increasing the UX task success rate by 28%

Front End Engineer, Block, Chicago, IL

Jul 2013 – Feb 2016

- Fixed a bug that reduced user complaints on the library website by 36%
- Demonstrated expertise in creating architecture blueprints and detailed documentation
- Built a feature that improved click-through rate of website by 22%
- Facilitated in development of User Interface using HTML/HTML5, CSS/SCSS, JavaScript and jQuery, AJAX, JSON, PHP
- Used React-Router to turn application into Single Page Application
- Responsible for React UI and architecture
- Building components library, including Tree, Slide-View, and Table Grid
- Experience in RESTful web services to integrate between Server side to Client Side
- Served as a friendly, hardworking, and punctual employee

Education

Bachelor of Science at The University of Chicago
Jun 2009 – Jun 2013

Language

English: Native