Ethan Miller

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Senior Full-Stack Software Engineer

Senior Full Stack Engineer with 10 years of hands-on experience building scalable, cloud-native web applications using Python, TypeScript, Angular, and SQL. Proven track record of delivering robust technical solutions in agile, cross-functional teams. Strong background in AWS cloud services, container orchestration (Docker, Kubernetes), and modern CI/CD pipelines. Passionate about emerging technologies, mentoring team members, and creating seamless digital experiences that solve real customer problems. Dedicated to engineering excellence and continuous learning in dynamic environments.

Career Experience

Braintek, Texas, US   **Feb 2020 – Feb 2025**
Senior Software Engineer (Sr.SE)

Drove client success for 30+ enterprise accounts by leading technical delivery within a 12-person cross-functional team. Boosted deployment velocity and quality by 40% through automated testing (Jest, React Testing Library). Modernized legacy back-end systems to integrate seamlessly with React front-end, enhancing platform stability. Engineered responsive, device-agnostic designs using Tailwind CSS, significantly enhancing cross-platform user experience and accessibility. Recognized as a strategic technical leader at Braintek, maintaining business continuity during critical system upgrades, mentoring peers, and driving cross-team alignment with digital transformation goals.

- Spearheaded the adoption of a modern frontend framework (React), improving web app performance by 40%, boosting user engagement, and reducing bounce rates through optimized architecture and responsiveness.
- Optimized application state management with Context API, accelerating performance and streamlining debugging, leading to faster release cycles and reduced maintenance overhead.
- Built and integrated efficient RESTful APIs and GraphQL endpoints; implemented asynchronous data-fetching (Axios, Fetch API), ensuring seamless, high-speed frontend-backend communication.
- Achieved a 40% decrease in UI load times by refactoring critical codebases and deploying advanced state management patterns, directly increasing user satisfaction scores.
- Enhanced backend performance by 30% through MySQL query optimization and schema redesign, supporting high-throughput operations with minimal latency.
- Delivered secure, scalable RESTful APIs using Node.js (Express) and ASP.NET, implementing OAuth 2.0 protocols to safeguard user data and authorization processes.
- Deployed backend services on AWS using Docker and Kubernetes, enabling automated scaling, improved resource utilization, and enhanced system resilience.
- Accelerated agile delivery by actively contributing to Scrum ceremonies (stand-ups, sprint planning, retrospectives), ensuring alignment with product goals and consistent on-time feature delivery.
- Designed and deployed AWS infrastructure solutions for HIPAA-compliant healthcare applications.

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- Supported cross-functional development teams on DevOps best practices and deployment strategies.

DEVAO, Columbus, OH   **Jul 2017 – Nov 2019**
Senior Software Engineer (Sr.SE)

Integrated Stripe and PayPal APIs to deliver secure, scalable payment solutions, enhancing trust and reducing transaction failures. Deployed PayPal Express Checkout and Payments Pro for seamless multi-channel payments. Customized Stripe Elements and Checkout to boost conversion rates and streamlined subscription management with Stripe Billing. Optimized cloud infrastructure leveraging AWS services (EC2, S3, RDS, Lambda), leading to a 20% drop in operational costs and a 30% uplift in application responsiveness. Elevated platform accessibility by achieving WCAG compliance through strategic implementation of ARIA roles and semantic HTML, enhancing the user experience for all, including users with disabilities.

- Created automated AWS environments for development. Staging, and production using CloudFormation templates.
- Developed and maintained CI/CD pipelines for Python and C# applications using CircleCI and AWS CodePipeline.
- Spearheaded the transformation of a legacy monolithic system into a microservices-based architecture, boosting scalability by 50% and slashing infrastructure costs by 40%.
- Engineered a suite of reusable software components adopted across multiple teams, cutting development cycles by 30% and enhancing cross-project consistency.
- Accelerated system performance by 69% through strategic refactoring of critical modules, introducing a high-efficiency shared library within a single sprint.
- Optimized database performance and scalability for Paramount+ by selecting PostgreSQL as the core RDBMS, leveraging its robustness and advanced data type support.
- Strengthened data privacy and regulatory compliance (GDPR, CCPA) by designing and implementing an encryption strategy using Bcrypt and instituting regular database audits.
- Improved database efficiency and system reliability through proactive maintenance, including vacuuming and table analysis, ensuring peak performance and optimized storage.
- Participated in Agile ceremonies and collaborated on DevSecOps initiatives across teams.

Autodesk, San Francisco, CA   **May 2015 – May 2017**
Software Engineer (SE)

Developed a real-time communication solution with Action Cable and Socket.io, boosting system performance and user responsiveness. Resolved critical production issues within 24 hours through root cause analysis and rapid deployment, ensuring uninterrupted operations. Strengthened EHR system interoperability by applying HL7 standards, enabling seamless patient data exchange across healthcare platforms and improving clinical decision-making. Ensured secure, HIPAA-compliant transactions by designing and deploying RESTful APIs that integrated patient management and third-party payment systems.

- Drove a 4% boost in reporting system accuracy by leading the design and deployment of long-term communication modules, directly enhancing data integrity and decision-making.
- Developed JavaScript and React-based web interfaces, improving system usability and reducing latency by 10%.
- Wrote unit tests using React Testing Library, ensuring code functionality and minimizing production issues.

- Solved coding problems for enterprise applications, delivering clean, efficient JavaScript solutions.
- Reduced customer turnaround time by 20% through strategic resource optimization, streamlining workflows and improving service efficiency across departments.
- Reduced manual entry errors by 90% and improved patient data integrity by designing a streamlined, secure patient registration module with advanced validation checks.
- Boosted organic search traffic by 40% through the implementation of SEO best practices, significantly enhancing online visibility.
- Cut excess inventory costs by 20% by implementing predictive analytics to accurately forecast inventory needs based on historical trends.
- Accelerated team onboarding and improved database management by developing clear, comprehensive documentation for database schemas, APIs, and access patterns.

Airbnb, San Francisco, CA   Mar 2014 – Mar 2015
Web Developer (WD)
At Airbnb, I contributed to the development of customer-facing features for a high-traffic web platform, focusing on responsive and user-friendly experiences. My work spanned both front-end and back-end responsibilities, allowing me to build a well-rounded skill set early in my career.

- Worked on customer-facing features using HTML, CSS, and jQuery.
- Collaborated with the design team to implement responsive layouts.
- Assisted in server-side scripting using PHP and templating.
- Documented development guidelines and onboarding material.
- Automated repetitive testing tasks with simple shell scripts.
- Built internal tools to manage property listings and user data.
- Maintained consistency in code formatting and linting practices.
- Participated in weekly engineering meetings and sprint planning.

Education

College of the Mainland — Bachelor's Degree in Computer Science

Technical Proficiencies

Languages & Frameworks: HTML, CSS, JavaScript, TypeScript, React, Next.js, Node.js, Python, Express.js, Django, Ruby on Rails, Ruby, Inertia.js, PHP, C, C++, C#, ASP.NET MVC, ASP.NET Core, Rust, Blazor, Go, PHP, Laravel, Java, Spring(Boot, Security, MVC), Healthcare UI/UX, OAuth2, Angular, Kendo UI, .NET Core8, Backbone, Ember, Entity Framework Core, Object-Oriented Design, OOP
Mobile Development: Proficient in Kotlin(Android), Flutter, React Native, iOS and macOS, Swift
Databases: MySQL, PostgreSQL,Supabase, MongoDB, Redis

Cloud & DevOps: AWS(Security Hub, GuardDuty, Inspector, Trusted Advisor, IAM, VPC, S3, EC2, Lambda, RDS), Google Cloud Platform (Cloud Functions, BigQuery), Azure(Security Center, IAM, Networking, Compliance Policies) Docker, Kubernetes, Jenkins,
 Serverless Framework, Render, Vercel, Terraform (for infrastructure as code)

APIs: RESTful APIs, FastAPI, GraphQL, WebSockets (for real-time communication)

Automated Testing & Quality Assurance: Jest, React Testing Library, Cypress, Mocha, Chai (for unit and integration testing)

Architecture: Microservices Architecture, Serverless Applications, Event-Driven Architecture

Agile Methodologies: Scrum, Kanban, Lean, Team Leadership (effective at driving sprints and fostering collaboration)

Other Skills: Continuous Integration/Continuous Deployment (CI/CD) with tools like GitHub Actions and CircleCI, Performance Tuning, Security Best Practices (OWASP guidelines), SEO Optimization, Automation Workflows, AI Integration (using frameworks like TensorFlow or PyTorch for machine learning applications)