

Andy Nguyen

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Experience	<p>Principal Software Engineer: Liberty Mutual 2023 - Present</p> <p>Leader of multiple development teams for global Broker business. Solutions delivered on Salesforce and AWS, for executing on both multi-million dollar and smaller sales.</p> <p>Planned and delivered automation saving over 423 hours manual hours a year.</p> <p>Removed tech debt, helping the company save 5 million dollars a year.</p> <p>In 2023, over 122 thousand submissions were “digitized”, resulting in improved handling time of 33%, and auto identify and act on 8% unprofitable business.</p> <p>Senior Software Engineer: Liberty Mutual 2021 - 2022</p> <p>Tech Lead of Liberty Mutual’s External Broker API. Delivered first to market APIs integrated in production with the company’s top Broker partner.</p> <p>Worked with teams across companies to deliver on E2E features. Mentored senior and junior developers on API First using OpenAPI (Swagger).</p> <p>Software Engineer: Liberty Mutual 2019 - 2021</p> <p>Created and deployed to production AWS serverless infrastructure to do intelligent data extraction and duplicate detection on tens of thousands of documents per day, allowing users to save thousands of work hours per year. Built multi-region active-active systems at a global scale, enabling disaster recovery and high availability.</p> <p>Presented to over 600 viewers at CDK Day, an AWS Organized Event. Won the “Technical Excellence” Award at Liberty Mutual’s largest internal hackathon.</p> <p>TechStart (Internships and Associate): Liberty Mutual 2016 - 2019</p> <p>Developed an event driven ecosystem for automatic OCR on stored images. Built with AWS Lambda, SNS, and S3. Spring Boot, Docker on AWS ECS Fargate for vendor product.</p> <p>Coded tools for underwriters for Ironshore acquisition. Stepped in to tackle application design, and out to make an effective team environment, providing guidance as needed. Resulted in agile solution delivery. Used React, Node, Microsoft Graph API, and Denodo.</p>
Projects	<p>Reusable AI Software and Patterns 2023 - Present</p> <p>Creating a platform focused on a new Learner/Mentor model. Using the platform recursively to help make itself. Made on Vercel, Next.js, and Supabase.</p> <p>Used AI assistants like ChatGPT to create working software, and documented a reusable process called EDD to show how to create software products using AI.</p> <p>Unit Test Framework, Simple Programming Paradigm, and Open Source 2019 - 2022</p> <p>Created a programming paradigm and framework to make both business logic and tests easier to maintain across projects and programming languages (Ex. Java / Maven).</p> <p>Published several Java and TypeScript libraries, used by coworkers in production.</p> <p>MadHacks Organizer and Engineer Team Lead 2015 - 2018</p> <p>Raised \$50,000. Organized two ~300 participant, and three ~100 participant events.</p> <p>Video game Server Owner 2012 - 2013</p> <p>Used PayPal API for payments. Made reusable plugins, leading to 20,000 downloads.</p>
Skills	<p>Languages: Java (Spring), JavaScript and TypeScript (React + Node.JS), Python</p> <p>Databases: DynamoDB, MySQL, H2, PostgreSQL</p> <p>Testing: BDD using Cucumber with Enzyme, TDD using JUnit with Mockito, Jest</p> <p>Technologies: AWS, OpenAPI (Swagger), Hololens 2, OAuth2, OIDC, Lucidchart, Salesforce</p> <p>DevOps: Git, Docker, Maven, Flyway, Cloud Foundry, Atlassian (Bamboo, Jira, etc.)</p> <p>Software Engineering: Agile, Scrum, Well-Architected, Threat Modeling</p>
Education	<p>B.S. Computer Science Cert/Minor, Mathematics University of Wisconsin, 2018</p>