

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 multi-million dollar sales and smaller sales.</p> <p>In 2023, over 122 thousand submissions were “digitized” by my systems, 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 design innovative and useful features for users, using Lucidchart and Jira. Mentored senior and junior developers on API First using OpenAPI (Swagger), and ensured teams deliver consistently using agile practices.</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 Technology Associate: Liberty Mutual 2018 - 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> <p>TDP Internship: Liberty Mutual 2016, 2017</p> <p>Designed a platform for employees to ideate on hackathon projects.</p>
Projects	<p>Reusable AI Software and Patterns 2023</p> <p>Used AI assistants like ChatGPT to create working software, and documented a reusable process to inform on 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>Sponsored by Capital One, Liberty Mutual, Microsoft, Google, and others raising over \$50,000. Organized two ~300 participant, and three ~100 participant, hackathons.</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>