

Andy Nguyen

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Experience	Principal Software Engineer: Liberty Mutual2023 - Present <p>Led and successfully delivered 3 high-priority projects concurrently during the last quarter of 2024. Estimated to obtain over 2-3 digits multi millions dollars of value per project, and one of the projects obtained a 100% satisfaction score among its hundred of users. Used a combination of Salesforce and AWS.</p> <p>Maintained automations that save over 423 hours manual hours a year. 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% to auto identify and act on 8% unprofitable business.</p> Senior Software Engineer: Liberty Mutual2021 - 2022 <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> Software Engineer: Liberty Mutual2019 - 2021 <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> TechStart (Internships and Associate): Liberty Mutual2016 - 2019 <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	Reusable AI Software and Patterns 2023 - Present <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> Unit Test Framework, Simple Programming Paradigm, and Open Source 2019 - 2022 <p>Created a programming paradigm, framework, and libraries to make logic easier to maintain across projects and programming languages, used by coworkers in production.</p> MadHacks Organizer and Engineer Team Lead 2015 - 2018 <p>Raised \$50,000. Organized two ~300 participant, and three ~100 participant events.</p> Video game Server Owner 2012 - 2013 <p>Used PayPal API for payments. Made reusable plugins, leading to 20,000 downloads.</p>
Skills	Languages: Java (Spring), JavaScript and TypeScript (React + Node.JS), Python Databases: DynamoDB, MySQL, H2, PostgreSQL Testing: BDD using Cucumber with Enzyme, TDD using JUnit with Mockito, Jest Technologies: AWS, OpenAPI (Swagger), OAuth2, OIDC, Lucidchart, Salesforce DevOps: Git, Docker, Maven, Flyway, Cloud Foundry, Atlassian (Bamboo, Jira, etc.) Software Engineering: Agile, Scrum, Well-Architected, Threat Modeling
Education	B.S. Computer Science Cert/Minor, Mathematics University of Wisconsin, 2018