Jason Nguyen

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EDUCATION

University of California, Irvine | Bachelor of Science - Computer Science   September 2020 - June 2023
- **Relevant Coursework**: Data Structures and Algorithms, Database Management, Object Oriented Programming, Projects in Data & Web Apps, User Interaction Software, Operating Systems, and Software Engineering

SKILLS

Languages: Java, C++/C, JavaScript, Python, SQL, HTML5, CSS, Typescript
Frameworks: React, Spring Boot, Express.js, .NET, Angular, JUnit
Others: AWS EC2, S3, Git, MySQL, MS SQL Server, Oracle Database, MongoDb, XML, JSON

EXPERIENCE

Software Developer Intern - Verizon   June 2022 - August 2022
- Developed a robust Scala framework for filtering search requests in backend video streaming services, resulting in a 15% reduction in resource utilization by leveraging real-time monitoring and system log analysis
- Applied functional programming concepts to establish standardized principles for API usage by implementing scalable sets of validation rules injected in controllers
- Created an error messaging system that provides insightful alerts for API misuse, enhancing developer productivity by 30% and fostering cross-pollination between 4 different teams
- Performed extensive unit testing to handle edge cases and validate crucial functionalities of the framework to ensure its reliability and integration within the overall system

Student Assistant - California Department of Public Health   September 2019 - November 2020
- Created a C# application in .NET to automate the manual document verification process, yielding in a 20% improvement in operational efficiency by implementing targeted field validation
- Implemented a script to cleanse data by flagging erroneous documents and pipelining them to company-specific domains
- Created SQL views to extract medical data from hospital databases for healthcare professionals
- Managed enterprise accounts using Cherwell and provided help desk support i.e. troubleshoot logins, firewall & security settings

Web UI Developer - California Department of Food and Agriculture   March 2019 - September 2019
- Transformed static web pages into dynamic interfaces using HTML, CSS, and JavaScript to enhance user interaction
- Integrated Bootstrap components to achieve responsiveness and ensure a consistent user experience across all devices
- Resolved ADA violations in over 200 web pages by complying style sheets to CA Accessibility standards
- Conducted smoke testing on pages during soft release and in DIT to ensure software stability and functionality

PROJECTS

Film Flix
- Developed RESTful APIs using Spring Boot within a microservice architecture, enabling modular interactions between identity management, billing, and search components
- Configured route mappings, re-directions, and JWT authentication to ensure seamless and secure access to endpoints
- Created a gateway API by implementing a queue to efficiently batch process requests to improve database performance
- Implemented user interface by following mobile first oriented design on React Native

Certitude
- Created controllers in Nodejs using Express to handle internal operations that include authentication, profile management, and data retrieval
- Designed relational models using UML diagrams to ensure data integrity between student, university, and employer entities
- Planned, developed and delivered bi-weekly sprints and scrum reports in an Agile software development life cycle
- Executed key SDLC practices such as requirements gathering, design, coding, testing, documentation & deployment

UCI ICS Search Engine
- Built a multi-threaded web search engine handling over 50,000 UCI web pages crawled using Beautiful Soup
- Implemented an inverted index to optimize search with query response times averaging under 100ms
- Improved accuracy of result rankings through TF-IDF scoring