Fay Nguyen

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SKILLS

Languages: C++, C#, Python, R, Kotlin, HTML/CSS, TypeScript, JavaScript, Bash, SQL, Go, T-SQL, Java
Frameworks: Git, .NET, ASP.NET, JSON, p5.js, Gradle, MongoDB, React.js, Node.js, Express.js, Vite, Bootstrap
Software: Android Studio, Visual Studio Code, Visual Studio, Tableau, Microsoft SQL Server, Postman, Splunk, GitHub, Docker, MySQL, PostgreSQL

EXPERIENCE

Incoming Data Management Intern | *International Union of Pure and Applied Chemistry*   January 2026

AI Undergraduate Researcher | *St.Olaf College (Northfield, MN)*   September 2025 – Present
- Researched applications of AI in classroom environments to enhance learning and teaching efficiency
- Improved an AI-powered chat platform using *Google GeminiAPI*, *Google Cloud CLI*, and *JavaScript* to assist students with coursework and respond to general academic inquiries

Computer Science Lead Teaching Assistant | *St.Olaf College (Northfield, MN)*   Feb 2023 – Present
- Led training sessions each semester for new and returning Computer Science TAs to cover comprehensive grading policies, communication strategies, and department's learning practices
- Organized and hosted community events to foster collaboration and engagement within Computer Science department

Software Engineering Intern | *Salesforce (Indianapolis, IN)*   June 2025 - August 2025
- Engineered an end-to-end API endpoint in the *C#* and *.NET* middle tier that delivers **a real-time recommendation feature** to improve stack-level performance across 1000+ databases
- Designed a new metric table with *T-SQL* stored procedures to autonomously log 3000+ entries per day, deprecate old data points, and run statistical aggregations in less than 200 ms to serve the recommendation algorithm
- Integrated the API into front end using *JavaScript*, with *Jasmine* and *Mocha* unit tests and implemented localization for a global-friendly user experience
- Built feature flags, configurable settings, and telemetry to monitor performance, wrote 30+ unit/integration tests, and ensured successful QA validation and delivery through CI/CD pipeline
- Actively participated in Agile development (daily stand-ups, backlog grooming, retrospectives) to ensure seamless delivery and continuous improvement

PROJECTS

RENDEZVUE | *JavaScript, React.js, Express.js, Node.js, Vite, PostgreSQL, HTML/CSS, TailwindCSS*
- Built a full-stack hobby-matching web app connecting nearby users through shared interests
- Implemented location-based matching recommendations with the Haversine formula
- Designed and developed a complete PostgreSQL database and end-to-end REST API endpoints for efficient data retrieval, relationship handling, and scalability

SECURE CLOUD STORAGE | *C#, .NET, ASP.NET Core, JavaScript, MySQL*
- Developed a full-stack secure cloud storage system supporting user authentication, group management, and role-based access control to uploaded files
- Implemented hybrid (AES-256 and RSA) encryption mechanism, with certificate-based key distribution and dynamic access for users and groups and designed metadata handling and secure file storage with protections against unauthorized access and seamless key rotation for new members

KITCHEN STORY | *Kotlin, Android Studio, XML, SQLite*
- Extracted data from Spoonacular API in *JSON* format, integrated information of recipes onto the RecyclerView to provide a dynamic and engaging user interface experience that shows recipes based on the inputted ingredients
- Developed database storing data for offline usage with *SQLite* and *Room*

EDUCATION

St.Olaf College   Northfield, MN
Bachelor of Arts in Computer Science and Math, Concentration in Statistics and Data Science   *Expected May 2026*
- GPA: 3.99/4.0
- Relevant Coursework: Software Design, Hardware Design, Analysis of Algorithms, Programming Languages, Theory of Computation, Advanced Computer Networks (Cryptography), Compiler Design, Database System Management, Concurrent Systems and Operating Systems, Artificial Intelligence, Algorithm for Decision Making, Data Visualization