Eric Ung

Individual Contributor

601 Carlson Parkway, Hopkins, Minnesota, 55305

ericweichungung@outlook.com | +1-952-393-3643

linkedin.com/in/eric-wc-ung | github.com/ericung | ericung.com

**PROFILE**

Strategic, grounded, and adaptable individual contributor with an aspiring career in software engineering as well as innovative research focusing on computer science. As an engineer, skilled in architecting scalable systems, securing applications through advanced practices, and leveraging cutting-edge tools for API development and cybersecurity solutions. As a researcher, focuses on identifying the big concepts whilst also leveraging technical expertise on matters of interest. With a sidearm in business in the Midwest, his name has weight in leadership and management.

**EXPERIENCE**

**New York University** *Principal Investigator | February 2025 – Current*

* Developing research fields and finding methodologies in funding
* Academic investigation of OSIRIS Lab problems including application security
* Enterprise level investigations via Immersive Lab
* Continuous networking with Cyber Fellows Scholars

**ChefsBatch, Layer 1 Holdings,** **and** **Eric Ung, LLC** *Consultant | Feb. 2024 – Current*

* Continuing to generate investors and forming partnerships with the local community
* Architected secure software solutions for legal systems and cybersecurity, integrating advanced network analysis with Wireshark and cryptographic protocols.
* Conducted research in monoids represented as rational series, applying findings to AI-driven cybersecurity innovations.
* Guided interns in technical skill-building, focusing on secure coding practices and compliance standards.

**Avanade** *Application Architect | Jun. 2022 – Feb. 2024*

* Spearheaded modernization efforts within freight and logistics systems, successfully securing legacy applications by integrating Azure Active Directory authentication.
* Optimized security pipelines using Azure DevOps, ensuring seamless Active Directory integration for continuous delivery.
* Led full-stack teams to deliver web applications for healthcare clients, applying robust security measures to APIs and user authentication processes.
* Redesigned database access mechanisms, achieving enhanced security and performance, while reducing query times from over five minutes to under five seconds.

**QuantumBricks** *Consultant | Jan. 2022 – May 2022*

* Collaborated with cross-functional teams to assess and improve the performance of spam filtering services.
* Focused on secure data handling and compliance during testing and implementation.

**Cognizant Softvision** *Associate Consultant 2 | Mar. 2021 – Dec. 2021*

* Engineered scalable, secure enterprise systems with microservices and APIs, incorporating C# and Agile methodologies to aid the operational line of food logistics.
* Mastered the implementation of React.js for secure, user-friendly interfaces.

**The Hormel Institute** *System & Database Admin/Design 2 | Jul. 2020 – Mar. 2021*

* Designed and secured web APIs and operations configuration systems using Golang, MariaDB, and JavaScript to fight cancer head on.
* Implemented solutions to address escalated infrastructure issues while ensuring the security of user-facing systems with the same ambition.

**Omnitracs LLC** *Software Engineer I | Jul. 2015 – Mar. 2019*

* Developed foundations for an amazing career including supply chain management.

**GITHUB PROJECTS**

**A Language of Polynomials**, https://www.github.com/ericung/ALanguageOfPolynomials

* A continuous formalized project as a standard of higher-level mathematics and its relationship with computer science and engineering

**Inferrable Languages**, https://www.github.com/ericung/InferrableLanguages

* A simplified approach at understanding systems of inference including word-based AI

**EDUCATION AND CERTIFICATION**

**New York University:** MS, Cybersecurity - *2025 to* *2027* (Pursuing)

**University of Minnesota:** BS, Computer Science - *2008 to 2013*

* Undergraduate Research Opportunities Program - Utilizing Lindenmayer systems in order to infer the next sequences of word generation

**RESEARCH**

**Software Engineering and Architecture** Microsoft, Linux/Unix

**Application and Cloud Security**, Cybersecurity, Observance, Analysis

**Theoretical Computer Science**, Abstract Algebra, Rational Functions, and Applications