Phong Le

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Education

University of Virginia, School of Engineering and Applied Science August 2022 – May 2026

Bachelor of Science in Computer Science, Minor in Applied Mathematics

- Cumulative Grade Point Average: 3.82/4.00 (Dean's List Honors)
- Relevant Coursework: Data Structures, Algorithms, Software Development Essentials, Computer Systems Architecture, Cyber Security, Discrete Mathematics, Software Engineering, Software Testing, Machine Learning

Experience

Software Engineer Intern Jun 2025 – Aug 2025

Appian *Mclean, VA*

- Deployed targeted **DataDog** monitors on production **SQS** queues, eliminating 100% of undetected system failures
- Built an AI-powered platform service integrating with teams' **GitLab CI** to automatically generate and update documentation from source code changes, accelerating delivery of impacted technical docs by 3×
- Replaced legacy admin access system with secure, just-in-time logins using **Teleport**, **improving compliance** and **reducing time-to-access** for Solutions Engineers supporting customer sites by at least 60%
- Provisioned and tuned **Kubernetes** network policies via **Helm charts**, strengthening cluster security and enabling targeted cross-Pod communication for customer apps and internal services

Software Engineer Intern May 2024 – April 2025

Ellucian *Reston, VA*

- Developed a rich-text-editor integrated AI writing assistant serving **2900+** higher education institutions globally
- Contributed **6,000+** lines of code to a platform service leveraging **AWS Bedrock, SQS, SNS, and Azure AI** to enable scalable AI integration into existing company SaaS solutions
- Reduced enterprise API latency by **85%+** through cloud-based caching using **AWS Lambda** and **DynamoDB**
- Engineered comprehensive **TypeScript** unit-tests for **React** and **AWS** modules, sustaining 70%+ code coverage

Projects

GradeBuddy | *TypeScript, Next.js, Prisma, MongoDB, tRPC*

- An AI powered grading assistant app to automate free-response grading and increase faculty efficiency
- Enforced type-safe client-server communication with **tRPC** and secure user authentication with **Auth0**
- Automated free-response grading with **OpenAI's API**, integrating text parsing and OCR for input scanning

SimpliSplit | *Python, TypeScript, React Native, Firebase, Venmo API*

- A mobile app to streamline bill splitting by allowing users to scan a receipt, match friends to receipt items, and send respective Venmo requests with one click, reducing manual effort by atleast 70%
- Implemented receipt scanning with **Tesseract** OCR and transaction processing with **Venmo API**

NutriFit | *TypeScript, React, MongoDB, Express.js, Nutritionix API, Kroger API*

- A nutritional health app enhancing food-item search using personalized nutritional scores based off health goals
- Designed and implemented RESTful APIs making use of macro-nutrient and food catalog data

Skills

Programming Languages: Python, Java, JavaScript, TypeScript, SQL, C, C++, R, HTML, CSS
Frameworks/Libraries: React.js, Next.js, Node.js, Express.js, Django, TailwindCSS, Jest, Selenium, Material-UI
DevOps: Kubernetes, Docker, AWS, Jenkins, Jira, Confluence, Git, CI/CD, Bash Scripting, PowerShell, Agile
Databases: DynamoDB, MongoDB, DocumentDB, PostgreSQL, Firebase, MySQL, SQLite

Extracurricular Involvement

Affiliations: Google Developer Group, Student Game Developers, Club Table Tennis, Vietnamese Student Association
Achievements: NPHMU Arthur S. Vallone Scholar, Carl Herbert Myerley Scholar, Kimmy-Duong Foundation Scholar