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 GPA**: 3.82/4.00 (Dean's List Honors)
- **Involvements**: Madison House Volunteer, Student Game Developers, Club Table Tennis, VSA, Kimmy-Duong Foundation Scholar ($8,000), NPHMU Arthur S. Vallone Scholar ($4,000), Carl H. Myerley Scholar ($2,000)

EXPERIENCE

Appian Jun 2025 – Aug 2025
Software Engineer Intern *McLean, VA*

- Deployed **DataDog** monitors on prod **SQS** queues via **Terraform**, cutting incident response times by **80%+**
- Replaced legacy admin access system with secure, proxy-based logins using **Teleport**, **Terraform**, and **Go**
- Provisioned and tuned **Kubernetes** network policies via **Helm charts**, strengthening cluster security and enabling targeted cross-Pod communication for **300+** customer apps and internal services
- Won intern hackathon with an AI-powered service leveraging **Gitlab CI/CD** and **AWS Bedrock** to automatically update documentation from source code changes, accelerating delivery of feature-impacted technical docs by **3×**

Ellucian May 2024 – April 2025
Software Engineer Intern *Reston, VA*

- Shipped 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 **Python, AWS Lambda, RESTful APIs, SQS, SNS** and **Bedrock** 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

FloodWatch | *TypeScript, React, Next.js, MySQL, Prisma, Mapbox API, Docker*

- Developed **floodwatch.io**, a flood risk prediction platform utilizing **Next.js**, **TypeScript**, and **MySQL**
- Implemented interactive flood maps in **React.js**, serving flood-risk predictions to **58+** Vietnamese provinces
- Built a device registration system with **Next.js** and **Prisma**, supporting **30+** LiDAR rain gauges across Vietnam
- Engineered **tRPC APIs** to streamline **20,000+** daily weather readings, driving continuous flood risk predictions

theCourseForum | *Python, Django, PostgreSQL, Docker*

- Maintained **theCourseForum**, a **Python/Django** course review platform supporting **12,000+** UVA students
- Shipped an AI powered review summary feature with **AWS Bedrock**, empowering course selection decisions

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

- Built a receipt-scanning bill-splitting app, significantly reducing manual bill splitting effort to just a few clicks
- Implemented OCR-based receipt ingestion and transaction splitting with automated Venmo request creation

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

- Built an AI-powered grading assistant app, automating free-response grading and increasing faculty efficiency
- Enforced type-safe client-server communication with **tRPC** and secure user authentication with **Auth0**
- Automated free-response grading with **OpenAI API**, integrating text parsing and OCR for input scanning

SKILLS

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