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

theCourseForum　　Aug 2025 – Present
Software Engineer　　*Charlottesville, VA*
- Maintained **theCourseForum**, a **Python/Django** course review platform supporting **12,000+** UVA students
- Developed Python **REST APIs** supporting course and review data integration for **8000+** sections every semester
- Built a reviews summary feature with **AWS Bedrock**, empowering informed course selection decisions

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, tRPC*
- 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

SimpliSplit | *Python, TypeScript, React Native, Firebase*
- Built a receipt-scanning bill-splitting app that reduces manual splitting effort by at least 70%
- Implemented OCR-based receipt ingestion and transaction splitting with automated Venmo request creation

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