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)
- Awards/Involvements: Kimmy-Duong Foundation Scholar (\$8,000), NPHMU Arthur S. Vallone Scholar (\$4,000), Carl H. Myerley Scholar (\$2,000), Madison House Volunteer, Student Game Developers, Club Table Tennis, VSA

EXPERIENCE

UVA Engineering

Aug 2025 – Present

Charlottesville, VA

 $Undergraduate\ Researcher$

- Developed <u>floodwatch.io</u>, a flood risk prediction platform utilizing Next.js, TypeScript, and MySQL
- Implemented interactive flood maps in **React.js**, servicing flood-risk predictions to **58+** Vietnamese provinces
- Built a device registration system with **Next.**; 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

Aug 2025 – Present

Software Engineer

Charlottesville, VA

- Maintained the Course Forum, a Python/Django course review platform supporting 18,000+ UVA students
- Developed Python **REST APIs** supporting course and review data integration for **8000+** sections
- Built a reviews summarization feature with AWS, empowering informed student course selection decisions

AppianSoftware Engineer Intern

Jun 2025 – Aug 2025

McLean, VA

• Deployed DataDog monitors on prod SQS queues via Terraform, cutting incident response times by 80%+

- Deployed DataDog mointors on prod SQS queues via Terratorin, cutting incident response times by 80%-
- Replaced legacy admin access system with secure, proxy-based logins using **Teleport**, **Terraform**, and **Go**, improving compliance and **reducing time-to-access** for Support Engineers diagnosing customer sites
- 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

- 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 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

SimpliSplit | Python, TypeScript, React Native, Firebase

- A mobile app to streamline bill splitting by allowing users to scan a receipt, match friends to receipt items, and send Venmo requests with one click, reducing manual effort by at least 75%
- Implemented receipt scanning with Tesseract OCR and transaction processing with Venmo API

${f GradeBuddy} \mid {\it TypeScript, Next.js, Prisma, MongoDB, tRPC}$

- 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 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