

Phong Le

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EDUCATION

University of Virginia, School of Engineering and Applied Science <i>Bachelor of Science in Computer Science, Minor in Applied Mathematics</i>	August 2022 – May 2026
<ul style="list-style-type: none">• 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 <i>Software Engineer</i>	Aug 2025 – Present <i>Charlottesville, VA</i>
<ul style="list-style-type: none">• 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 student course selection decisions	
Appian <i>Software Engineer Intern</i>	Jun 2025 – Aug 2025 <i>McLean, VA</i>
<ul style="list-style-type: none">• 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 <i>Software Engineer Intern</i>	May 2024 – April 2025 <i>Reston, VA</i>
<ul style="list-style-type: none">• Shipped an 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 <i>TypeScript, React, Next.js, MySQL, Prisma, tRPC</i>	
<ul style="list-style-type: none">• Developed floodwatch.io, 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.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 <i>Python, TypeScript, React Native, Firebase</i>	
<ul style="list-style-type: none">• 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 <i>TypeScript, Next.js, Prisma, MongoDB, tRPC</i>	
<ul style="list-style-type: none">• 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