

REET KALER

Haymarket, VA | 📞 571-264-3995 | ✉ reetkcoding@gmail.com | [in linkedin.com/in/reet-kaler](https://www.linkedin.com/in/reet-kaler) | github.com/reetkaler

Education

Virginia Tech

Bachelor of Science in Computer Science

Expected May 2028

Blacksburg, Virginia

Experience

Capital One

June 2026 – August 2026

Software Engineer Intern

McLean, VA

- Revamped small business card account screens, viewed by **8M+** customers daily
- Developed a feature-flagged enhancement to the card-decline notification API, adding second- and third-person messaging across 4 decline types and refactoring widget-building logic into composable, testable functions
- Wrote **250+** lines of Jest tests covering a dozen decline-messaging scenarios and edge cases, enabling safe, incremental rollout via feature flags

Reinventing Geospatial Inc.

January 2026 – May 2026

Software Engineer Intern

Fairfax, VA

- Shipped **20+** features and fixes for a GIS application in an Agile workflow, demoing releases directly to stakeholders
- Delivered a Map Descriptor feature spanning schema migration, UI, and persistence layers across all 3 obstacle geometry types via 5 merged MRs
- Fixed critical crashes (Telerik chart decimal overflow, basemap reimport duplicate-key exception) and migrated 3 ViewModels to ValidatableDouble for safe chart binding

WR Systems

May 2025 – December 2025

Software Engineer Intern

Fairfax, VA

- Refined interactive map controls in a C# Blazor GIS application by enabling smooth, device-sensitive zoom and rotation, improving UX across input types
- Engineered a secure decryption pipeline to extract embedded encryption parameters and transform protected datasets into usable formats

Projects

Intervue: AI Interview Practice Platform | *Next.js, FastAPI, Supabase, Whisper, Claude API, MediaPipe*

- Built a full-stack AI mock interview platform, used by **35+** users, that scores responses via Whisper transcription, Claude-based grading, and MediaPipe body-language tracking
- Implemented a LeetCode-style coding judge with sandboxed Judge0 execution and cost-safety guardrails (per-user quotas, idempotency checks, Turnstile bot verification)

GroundZero: Disaster Intelligence Platform | *React, Next.js, FastAPI, Mapbox, Python*

- Modeled earthquake impact severity using a 5-factor physics-based scoring system, incorporating a seismic ground-motion attenuation formula, building material vulnerability, and construction-era risk
- Orchestrated up to **4** concurrent AI agents via async task coordination, using Voronoi partitioning and greedy nearest-neighbor routing to assign non-overlapping building coverage

Parrot: AI Phonetics Coach | VTHacks Best Use of Gemini API | *Next.js, React, MediaPipe, Azure*

- Engineered an AI phonetics coach delivering phoneme-level feedback, real-time lip tracking, and personalized pronunciation scoring
- Designed real-time lip-sync at **30fps** using MediaPipe FaceMesh, applying binary search for frame-accurate audio/video alignment during playback

Extracurriculars

CS Careers at Virginia Tech

January 2025 – Present

Vice President (Jan 2026 – Present) | Graphic Designer (Jan 2025 – Jan 2026)

Blacksburg, VA

- Manage a **15**-person board, leading student-focused initiatives that support peer career development across the CS community
- Increased average post engagement by **~25%** through redesigned graphics and layout enhancements

Google Developer's Club at Virginia Tech

February 2026 – Present

Graphic Designer

Remote

- Design flyers and social graphics for club workshops and hackathons, maintaining a consistent visual brand

Technical Skills

Languages: Java, JavaScript, TypeScript, Python, HTML, CSS, C#, C++, SQL

Frameworks & Technologies: React, Next.js, Node.js, FastAPI, OpenCV, .NET/Blazor, Supabase, MediaPipe

Developer Tools: Git, Docker, VS Code, Linux, GitHub Copilot, Claude Code, Jest