

Aniketh Bandlamudi

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EDUCATION

University of Virginia

B.S. in Computer Science & Applied Mathematics, School of Engineering and Applied Science

Charlottesville, VA

Expected May 2030

Y Combinator Startup School

Early-stage founder program, in person

San Francisco, CA

2026

Oakton High School

Advanced Studies Diploma; GPA: 4.5/4.0; 18 AP courses

Vienna, VA

Aug. 2022 – June 2026

- *Relevant Coursework:* AP Physics C (Mech & E&M), AP Calculus BC, AP Statistics, AV CS DS&A

EXPERIENCE

Founder & Engineer

Pragmatic (aniketh.net/pragmatic)

Jan. 2026 – Present

Remote

- Building a zero-dependency durable execution runtime in Rust for nondeterministic AI agents, backed by Agential
- Journals every step at 230 ns/append (flat to 1M entries) so agents survive crashes and resume exactly; 1000/1000 replay-determinism test suite
- Designed a probabilistic process calculus with a mechanized replay-soundness proof in Lean 4

Engineering Intern

Alarm.com

May 2026

Tysons, VA

- Supported hardware QA for home security systems by configuring and integrating devices
- Performed hands-on lab work including soldering buck converters and embedded boards
- Built an internal software tool for lab device management

Founder & President

OCRadar (ocradar.com)

May 2022 – Present

Vienna, VA

- Led a team of 4 building an AI-powered mobile platform for early oral cancer detection using computer vision, reaching millions of people worldwide
- Published research on a CNN achieving 98% accuracy on OCSCC detection with custom hardware for optimal image capture ([arXiv:2510.16235](https://arxiv.org/abs/2510.16235))
- Earned media coverage from Korea Times, Tech Roast Show, Vision Times China, WTOP, and FCPS News

Software Lead (FRC) / R&D Captain (FTC)

Oakton Robotics

2022 – 2026

Vienna, VA

- Led software for a 25-member team, driving systems engineering and control software for competition robots
- Oversaw robot design, programming, and team development across four years
- Mentored and managed STEM workshops and community outreach programs

PROJECTS

Haze | *Swift, iOS*

App Store

- Designed, built, and shipped a full-featured iPhone weather app solo, 5-star rated on the App Store, with current conditions, forecasts, air quality, and severe-weather alerts

Splatify | *ffmpeg, COLMAP, Brush*

GitHub

- Built a fully local video-to-3D pipeline for Apple Silicon Macs that turns ordinary phone videos into interactive Gaussian splat scenes viewable in any browser, with no cloud processing required

IllumiSign | *Hack the Nest 2025 Winner*

Devpost

- Won Hack the Nest 2025 with a browser-based communication tool that uses real-time eye tracking to let ALS patients select letters and generate speech without specialized hardware

TECHNICAL SKILLS

Languages: Java, Python, C++, HTML/CSS/JavaScript, Swift

Technologies: PyTorch, Computer Vision, iOS/macOS Development, Distributed Systems, Embedded Systems

Hardware: Soldering, Robotics Control Systems, PCB Design

Developer Tools: Git, Xcode, ffmpeg, COLMAP, VS Code