Andrew Vu

Software Engineer

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PROFESSIONAL SUMMARY

I am a Computer Science student at Oregon State University pursuing a Bachelor of Science in Computer Science, and a Cybersecurity Certificate, with graduation expected in June 2026. I have a strong foundation in programming, algorithms, data structures, cloud technologies, AI/ML, and cybersecurity, supported by hands-on academic projects. I am motivated, curious, and passionate about continuous learning, problem-solving, and working in collaborative engineering environments. I am seeking entry level roles in software or cybersecurity engineering where I can apply my skills and gain real-world industry experience.

EDUCATION

- **Bachelor of Science in Computer Science,** Oregon State University, Corvallis, Oregon
  09/2022 – 06/2026 • GPA: 3.44/4.0 • Dean's List (Multiple Terms)
- **Cybersecurity Certificate,** Oregon State University (06/26)
- **Senior Capstone Project** | Fall 2025 – Spring 2026

  AI-Powered Home Assistant Integration (In Progress)
  • Developing an AI-driven Home Assistant integration that converts natural language commands into structured JSON action plans using GPT-4o.
  • Implementing secure execution through API-key protection, allow-listed services, entity validation, and robust error handling.
  • Designing a reliable, modular asynchronous architecture to support real-time smart-home automation.
  Technologies:
  Python · GPT-4o (OpenAI API) · Prompt Engineering · Home Assistant · REST APIs · AsyncIO · JSON Schema · Secure API Handling · Input Validation · Git · GitHub
- **Relevant Coursework:**
  Data Structures and Algorithms, Object-Oriented Programming, Advanced Web Development, Cloud Application Development, Operating Systems, Database Management Systems, Database Structures, Computer Networks, Analysis of Algorithms, Parallel Programming, Computer Graphics, Shaders, AI, Data Mining & Machine Learning, Network Security, Digital Forensics, Defense Against the Dark Arts, Cryptography, Usability Engineering, Security Governance, Senior Capstone Engineering Project
- **Bachelor of Science in Computer Science, Portland State University**
  09/2020 - 06/2022 • Portland, Oregon
  - o Completed Computer Science Prerequisite Courses

ACHIEVEMENT & LEADERSHIP

- Member, NCAA Division I (D1) Men's Tennis Team, Portland State University | Portland, OR
- Student Ambassador, Oregon State University | Portland, OR
- Earned multiple USTA Junior Championship trophies

TECHNICAL SKILLS

Python | Java | JavaScript | TypeScript | C/C++ | SQL | Node.js | React | Angular | HTML5 | CSS3 | XML | JSON | RESTful APIs | Secure API Handling | Input Validation | JSON Schema | Asynchronous Programming (AsyncIO) | API Testing | Git | GitHub | GitHub Actions | GitHub Copilot | Docker | Kubernetes | CI/CD Pipelines | Google Cloud Platform (GCP) | Amazon Web Services (AWS) | PostgreSQL | MySQL | MongoDB | Data Analytics | Data Mining | Artificial Intelligence (AI) | Machine Learning (ML) | Neural Networks (NN) | Natural Language Processing (NLP) | Large Language Models (LLMs) | Cybersecurity | Network Security | Identity & Access Management (IAM) | Wireshark | Postman | Swagger | Linux | Windows | iOS | SDLC | QA Testing | Agile | Scrum

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⚙ KEY STRENGTHS

Strong Work Ethic & Dedication | Curious & Passionate Learner | Analytical Thinking & Problem-Solving | Attention to Detail | Teamwork & Collaboration | Leadership | Communication Skills (Verbal & Written) | Technical Communication | Proactive & Self-Starter | Ownership & Accountability | Adaptable & Flexible | Time Management | Critical Thinking | Growth Mindset | Continuous Learning & Improvement | Resilience & Discipline

💼 WORK EXPERIENCE

Software Engineer (Freelance, Part-time)
Gresham United Methodist Church, Gresham, OR | 09/2025 – 12/2025

- Designed and implemented a component-based web architecture in Framer using custom HTML, CSS, and JavaScript to create reusable, interactive UI components.
- Led a full platform migration from Wix to Framer, managing domain transfer planning, DNS configuration, and email continuity to minimize downtime and data loss.
- Built structured content models and data-driven page templates (events, leadership, programs) to support scalable content management and future growth.
- Integrated secure payment workflows using PayPal and optimized site performance, mobile responsiveness, and accessibility with ADA-aware design practices.
- Applied software engineering principles (modularity, separation of concerns, reusability) while translating stakeholder requirements into controlled, maintainable system changes.

Software Engineer - Summer Internship
Wholistic Peace Institute (WPI), Lake Oswego, OR | 06/2025 - 08/2025

- Served as the sole developer responsible for designing, building, and maintaining the organization's website from the ground up.
- Led full-stack development and infrastructure setup on Bluehost, optimizing performance, server configuration, and overall reliability.
- Built dynamic and responsive features using WordPress (Elementor Pro), HTML5, CSS3, JavaScript, PayPal/Stripe APIs, and Google Books API.
- Implemented a scalable content-management workflow and an API-driven digital-library checkout system using the Google Books API, enhancing site interactivity with custom JavaScript, AJAX-style behaviors, and user-friendly navigation while managing client communication and end-to-end delivery.
Key Tools & Technologies: WordPress (Elementor Pro), PayPal & Stripe API, Google Books API, HTML5, CSS3, JavaScript (Vanilla JS), PHP, Bluehost cPanel, YouTube API, UX/UI Design (Responsive & Accessible Design)

Tennis Coach
Nike Tennis - Pepperdine University, Malibu, CA | 06/2024 - 09/2024

- Coached and mentored youth and adult athletes, customizing training techniques for various age groups and skill levels, with a focus on refining techniques, improving strategies, and enhancing performance.
- Maintained a safe and supportive environment for campers by addressing individual needs, offering constructive feedback, and fostering growth.
- Demonstrated strong multitasking skills by managing coaching duties, administrative tasks, and camp logistics during peak activity times, collaborating with team members to ensure smooth operations.

👤 VOLUNTEER

Elderly Care Volunteer
Meals on Wheels Association of America, Beaverton, OR **|**06/2015 - 09/2018

- Welcomed and assisted elderly individuals and disabled veterans, ensuring comfort, satisfaction, and personalized support.
- Managed the salad bar during meal hours, maintaining freshness, cleanliness, and adherence to dietary requirements while contributing to food preparation efforts.
- Delivered meals to recipients, ensuring timely service and cleanliness of tables and delivery bags, fostering a supportive and inclusive dining environment.