

## Education

<b>Carnegie Mellon University</b> <i>B.S. in Computer Science; Minor in Machine Learning</i>	<b>May 2027</b> <i>Pittsburgh, PA</i>
<ul style="list-style-type: none"><li>• <b>Relevant Courses:</b> Data Structures and Algorithms, Computer Systems, Functional Programming, Discrete Math, Linear Algebra, Multivariable Calculus, Artificial Intelligence, Machine Learning, Computer Vision, Mobile and Web Application Development</li></ul>	

## Technical Skills

**Languages and Operating Systems:** Python, Java, C, C++, JavaScript, HTML/CSS, TypeScript, Rust, SQL, MATLAB, Linux/Unix, macOS  
**Developer Tools:** Git, Docker, Vim, Amazon Web Services (AWS) EC2, MongoDB, Google Cloud, Firebase, Android Studio, PostgreSQL  
**Libraries & Frameworks:** React, Vite, Express, Node.js, Next.js, Flask, NumPy, Pandas, TensorFlow, PyTorch, Keras, OpenCV

## Experience

<b>ScottyLabs</b> <i>Software Engineer</i>	<b>Aug 2025 – Present</b> <i>Pittsburgh, PA</i>
<ul style="list-style-type: none"><li>• Utilizing <b>React</b>, <b>TypeScript</b>, and <b>Railway</b> to integrate live data from CMU Dining Services into an app that streamlines menus and specials for <b>10,000+ monthly users</b>.</li><li>• Leading the integration of a geospatial routing system with <b>Rust</b> and <b>REST APIs</b> to sort campus dining locations by walking distance.</li></ul>	
<b>Vytal.AI</b> <i>Software Developer and Machine Learning Engineer</i>	<b>May 2022 – Dec 2024</b> <i>Alexandria, VA</i>
<ul style="list-style-type: none"><li>• Used <b>Flask</b>, <b>Next.js</b>, and <b>MongoDB</b> to develop a quantitative brain health assessment app via novel eye-tracking software at Venture Capital-backed startup.</li><li>• Optimized <b>Python</b> biometric pipelines and deployed ML models on <b>AWS EC2</b> to scale testing to <b>300+ clinical beta users</b>.</li></ul>	
<b>Virginia Polytechnic Institute</b> <i>Computer Science Research Intern</i>	<b>April 2024 – May 2025</b> <i>Blacksburg, VA</i>
<ul style="list-style-type: none"><li>• Designed quantum-classical hybrid algorithms with <b>Python</b> and <b>MATLAB</b> to address graph coloring and other boolean SAT problems, <b>reducing computation costs by up to 65%</b> compared to leading models.</li></ul>	

## Projects

<b>RoutineRemind</b>	<b>June 2022 – Present</b>
<ul style="list-style-type: none"><li>• Developing a <b>patent-pending</b> app with <b>JavaScript</b>, <b>HTML</b>, and <b>Firebase</b> to create personalized schedules for children with autism.</li><li>• Scaling product to <b>200+ active users</b> through clinical partnerships and integration in local schools.</li><li>• Recognized as <b>first place in the Congressional App Challenge (top 4%)</b>; demoed app at Capitol Hill.</li></ul>	
<b>EyeLS</b>	<b>Aug 2023 – Sep 2025</b>
<ul style="list-style-type: none"><li>• Constructed a gaze-tracking application that maps eye movements to click locations with <b>92% calibration accuracy</b>, enabling patients with neurodegenerative disorders like ALS to communicate nonverbally while <b>saving over \$15,000 annually</b>.</li><li>• Granted research stipend and <b>Technical Excellence Award</b> from IEEE (top 3 out of 300+ projects).</li></ul>	

## Research & Publications

<b>A Transformer-Based Approach to Diagnose ALS via EEG Analysis</b> <i>17th International Conference on Advanced Computer Theory and Engineering</i>	<b>Feb 2025</b>
<b>LapseNet: A Hybrid CNN-LSTM Approach for Accurate and Efficient Vision-Based Fall Detection</b> <i>6th International Conference on Robotics and Computer Vision</i>	<b>Nov 2024</b>
<ul style="list-style-type: none"><li>• Recognized with <b>IEEE Best Presentation Award</b> (top 1.5% of 500+ participants).</li></ul>	
<b>ConVox: A Deep Learning Approach for Accurate Multilingual Voice Disorder Detection</b> <i>5th International Conference on Big Data, Artificial Intelligence and Internet of Things Engineering</i>	<b>Aug 2024</b>
<b>RexDash: A Technical Dashboard for Analyzing Replica Exchange Molecular Dynamics Simulations</b> <i>Journal of Student-Scientists' Research (George Mason University Computer Science Internship)</i>	<b>Oct 2023</b>