

GitHub Profile
<a href="https://github.com/MichaelVandi/">https://github.com/MichaelVandi/</a>
LinkedIn Profile
<a href="https://www.linkedin.com/in/michael-vandi/">https://www.linkedin.com/in/michael-vandi/</a>
Contact Information
<b>Email</b> <a href="mailto:mikevee2013@gmail.com">mikevee2013@gmail.com</a>
<b>Phone</b> +1 (301) 851 9470
Skills
<b>Programming:</b> Java, Rust, Python, JavaScript, C++, C, Ruby, React, Node.js, Go, C#, Bash, JQuery, Ajax, PHP, VB.net
<b>UI Development:</b> HTML, CSS, Bootstrap, Jinja
<b>Databases:</b> SQL, MongoDB, GraphQL, MySQL, PostgreSQL, ORMs
<b>Cloud Computing:</b> AWS, Microsoft Azure, Google Cloud Platform, Firebase
Publications
<ul style="list-style-type: none"> <li><a href="#">A Cloud Computing Infrastructure to Support xEMUs and Future EVAs</a> (2022)</li> <li><a href="#">An Augmented Reality Guidance and Operations System to Support the Artemis Program and Future EVAs</a> (2021)</li> <li><a href="#">Understanding the Importance of Data Documentation</a> (2020)</li> </ul>
Honors and Awards
<ul style="list-style-type: none"> <li>1<sup>st</sup> Place: Maryland COVID-19 Hackathon</li> <li>National Society of Leadership and Success (2019)</li> <li>Laurence Short Award Winner (2019-2020)</li> <li>Featherstone Scholarship Award Winner (2019, 2020)</li> </ul>

Michael Vandi	August 14 <sup>th</sup> , 2022
Software Engineer	<a href="mailto:mvandi.com">mvandi.com</a>
Experience	
<b>Amazon Web Services – Software Engineer</b>   <i>Seattle, WA</i>	May 2021 - Feb 2022
<ul style="list-style-type: none"> <li>Solved a critical service-wide <b>auto scaling infrastructure issue</b> to support Black Friday traffic which led to the first Black Friday in <b>3 years with zero outages</b> within my org.</li> <li>Created a <b>one-click automated sandbox</b> setup system for native AWS development with <b>CI/CD pipelines</b> which reduced sandbox setup time by over 50%.</li> </ul>	
<b>NASA Suits – Lead Software Engineer</b>   <i>Baltimore, MD</i>	Oct 2019 - May 2021
<ul style="list-style-type: none"> <li>Led a team of 15 engineers to create an augmented reality <b>cloud infrastructure</b> system to support astronauts and extravehicular activities for NASA's Artemis mission.</li> <li>Implemented a <b>latency-layered architecture</b> on Magic Leap AR which led to a <b>15.8% energy optimization</b>.</li> </ul>	
<b>National Science Foundation – GIS Intern</b>   <i>Baltimore, MD</i>	Jun 2020 - Dec 2020
<ul style="list-style-type: none"> <li>Wrote Python scripts to model <b>data infrastructures</b> for <b>geospatial data</b> indicators on transportation, housing and COVID-19 statistics in Baltimore City.</li> <li>Successfully maintained a repository of over 20 COVID-19 testing sites in Baltimore city on OpenStreetMap.</li> </ul>	
<b>Directorate of Science – Software Engineer Intern</b>   <i>Sierra Leone</i>	May 2019 - July 2019
<ul style="list-style-type: none"> <li>Worked with a team of 8 engineers to develop <b>data</b> visualization platforms that help government agencies make data-driven decisions.</li> <li>Wrote a machine learning algorithm to classify photos of <u>10,747 school toilets</u>.</li> </ul>	
Education	
<b>Carnegie Mellon University</b>   <i>Pittsburgh, PA</i>	Aug 2021 - Present
<b>Master of Science (MS), Software Engineering</b>	
<ul style="list-style-type: none"> <li>Specialization: Building end-to-end large-scale distributed <b>software infrastructures</b>.</li> <li>Built complex decision analysis frameworks to tackle a variety of software engineering decision making problems including architecture, product, and process decisions.</li> </ul>	
<b>University of Baltimore</b>   <i>Baltimore, MD</i>	Aug 2018 - Dec 2020
<b>Bachelor of Science (Hons), Applied Computer Science – 3.95 GPA</b>	
<ul style="list-style-type: none"> <li><u>First Place</u> Inspired Discoveries Research Winner 2020.</li> <li><u>Outstanding Student Award, 2020</u> &amp; High Impact Honors Winner 2020.</li> <li><b>5x Dean's List</b> High-Honors, Member of Helen P. Denit Honor Society.</li> <li>Undergraduate Researcher (Turner research award recipient 2019, 2020).</li> </ul>	
<b>Harvard University</b>   <i>Cambridge, MA</i>	Jun 2019 - Aug 2019
<b>Professional Certificate, Web Programming with Python and JavaScript</b>	
<ul style="list-style-type: none"> <li>Designing and implementing <b>web apps</b> with Python, JavaScript, and SQL using frameworks like Django, Flask, and Bootstrap.</li> <li>Database design, <b>scalability</b>, and security, user experience, creating and using <b>API's</b> and leveraging <b>cloud services</b> like Heroku, GitHub, and Travis <b>CI/CD</b>.</li> </ul>	
Projects	
<b>COVID-19 Anonymous Contact Tracing</b>   <i>React Native, React.js, Firebase, SQL</i> iOS and Android app that anonymously traces positive COVID-19 contacts <b>via Bluetooth</b> using the <b>DP-3T algorithm</b> . GIS mapping and stats for <b>1,329 zip codes</b> in Maryland. (Won 1 <sup>st</sup> Place in Maryland COVID-19 hackathon) <a href="https://ciat-app.web.app">https://ciat-app.web.app</a>	
<b>Rate My NFT</b>   <i>Java, Node.js, React.js, Google Cloud, Elastic Search</i> The world's first platform to rate, review and discover digital collectibles. Built in 1 week and has acquired over 2,000 users. <a href="https://ratemynft.app/">https://ratemynft.app/</a>	
<b>evalu8</b>   <i>Python, JavaScript, SQL, Jinja 2, HTML, CSS, Django, Heroku</i> Web app that recommends 53,000 restaurants around the United States to customers based on reviews, directions and <b>geospatial</b> data. <a href="https://www.evalu8.xyz">https://www.evalu8.xyz</a>	
<b>Flack</b>   <i>Flask, Python, JavaScript, Socket.io, HTML, CSS, Jinja</i> Built a clone of Slack in 2 days using <b>socket.io</b> to broadcast messages to clients on the same network with <b>no internet connection</b> required. <a href="#">See source code</a>	
More projects and information available on <a href="#">my GitHub</a> & <a href="#">mvandi.com</a>	