

# Devon Walker

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Skills	<b>Programming:</b> Golang, JavaScript, TypeScript, Python, SQL, Make, C#, Java, HTML/CSS <b>Frameworks:</b> React.js, Playwright, Gorilla (REST), SciPy <b>Databases:</b> MySQL, Kafka, Prometheus, Redis, FoundationDB, BoltDB <b>Tools:</b> Linux, Git, Kubernetes, Docker, Ansible, Vault, Github, Graphana, Splunk, Vim
Experience	<div><div><b>Tesla, Inc.</b> <i>Staff Software Engineer</i> ● <b>None:</b> Wrote a Tool Positioning System in Golang to</div><div>Austin, TX <i>December 2021 – Present</i></div></div> <div><div><i>Staff Automation Engineer</i> <i>Senior Automation Engineer</i> <i>Automation Engineer</i> ● <b>None:</b> Created custom Tool Positioning System that uses a collection of disparate sensors to govern tool interlock conditions. Integrated into Shanghai Drive Unit (approx. 25 stations). ● <b>None:</b> Redesigned Siemens PLC MES transaction library to abstract changing backend data acquisition strategies from machine process implementations. ● <b>None:</b> Led a team of 9 controls engineers to deliver the first Tesla Paint Shop in Shanghai.</div><div><i>December 2019 – December 2021</i> <i>April 2018 – December 2019</i> <i>May 2017 – April 2018</i></div></div> <div><div><b>EZSoft, Inc.</b> <i>Automation Engineer</i> ● <b>None:</b> Wrote a custom C# communication interface and GUI to integrate lab test equipment into an Allen-Bradley control system. ● <b>None:</b> Recorded high-speed data into an SQL database and performed statistical analysis to inform future experiment plans.</div><div>Malvern, PA <i>October 2012 – July 2015</i></div></div> <div><div><b>Chemical Engr. Dept., University of Pittsburgh</b> <i>Process Control Engineer Internship</i></div><div>Pittsburgh, PA <i>May 2011 – December 2011</i></div></div>
Education	<div><div><b>Carnegie Mellon University</b> Master of Science in Chemical Engineering. 4.0/4.0. ● <b>Machine Learning:</b> Thesis on "A neural network potential for nanoporous graphene."</div><div>December 2016</div></div> <div><div><b>University of Pittsburgh</b> Bachelor of Science in Chemical Engineering. Minor in Computer Science. 3.3/4.0.</div><div>April 2012</div></div>