

# Patrick Gray

Computer Engineer

## 1 Personal Info.

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## 2 Languages/Tools

Languages: Go, Bash, C, Rust  
Tools and Technologies: Git, Docker, Kubernetes, Nomad, Terraform,  
AWS/GCP/Azure, Linux

### 3 Work History

Dec 2022 - Nov 2023	Senior Infrastructure Engineer <a href="https://cosmonic.com">cosmonic.com</a> Built and deployed various services/features in Go, Rust, Terraform, and more
July 2018 - Dec 2023	DevOps Engineer -> Engineer II: Platform -> Senior Engineer: Platform -> Senior Engineer: Office of the CTO <a href="https://ns1.com">ns1.com</a> Deployed global backend services. Troubleshoot and debugged legacy and greenfield services. Filled in for feature teams. Designed new product features. Mentored teammates and created onboarding material for new engineers. Presented talks at conferences and internally.
Nov 2016 - Jul 2018	Infrastructure Engineer at Layer, Inc. <a href="https://layer.com">layer.com</a> Built developer tools and infrastructural services (minikube and Go). Converted production infrastructure from CoreOS to run in Kubernetes, and then utilized the work to build another production cluster quickly on Azure to attain a large customer. Aided in operational design/audit of services.
May 2015 - Nov 2016	Software Engineer, DevOps at Conductor, Inc. <a href="https://conductor.com">conductor.com</a> Built AWS infrastructure with Terraform and other open source tools. Contributed back to OSS projects. Wrote bash where we needed glue and Go where we needed tools. Taught developers how to use Docker, Terraform, and worked with them to build better tools.
Sep 2014 - May 2015	Linux/DevOps Engineer at Reliant Solutions <a href="https://reliantsolutions.com">reliantsolutions.com</a> Responsible for managing multiple clients' AWS and in-store infrastructure with Puppet.
Nov 2013 - July 2014	IT Infrastructure Contractor at DIRECTV via RHT <a href="https://lifeshield.com">lifeshield.com</a> Rewrote legacy warehouse software. Debugged an open source C email system (dbmail) to develop a way of cleaning a legacy database. Admin for Atlassian tools. Produced requirement documents and system diagrams for the technical side of a multi-million dollar project to bring in an MDM PaaS for customer devices.
Oct 2012 - Apr 2013	Web Dev. Intern at Professional Science Master's Program <a href="https://psm.rutgers.edu">psm.rutgers.edu</a> Department web developer/admin. Responsible for design and functionality changes of a Drupal site. Aided in moving the site to a virtual backend.
Jun 2012 - Aug 2012	Web Developer for Innovation Park@Rutgers <a href="https://ipark.rutgers.edu">ipark.rutgers.edu</a> Built a Drupal website on Windows Server and customized the theme, functionality, and data types. Completed set goals early, allowing for refinements and changes to original plans while still under original development timeline.
Apr 2011 - Sep 2012	iOS/Web Dev. Intern at Rutgers Advanced Technology Extension <a href="https://rate.rutgers.edu">rate.rutgers.edu</a> , <a href="https://hackerspace.rutgers.edu">hackerspace.rutgers.edu</a> Developed an iPad application for the continuing education User Experience Design course. Post-completion, focused on the development of Drupal websites using HTML/CSS and PHP.

## 4 Education

Sep 2009 – May 2013	Bachelor of Science in Electrical and Computer Engineering <i>Rutgers, The State University of New Jersey</i> Computer Architecture and Assembly Language, Digital Logic Design, Programming Methodology I and II, Operating System Design, Software Engineering, Parallel and Distributed Computing, Virtual Reality, Network Centric Programming
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