

Mihir Singh

Seeking full time employment in infrastructure, platform, site reliability, and security engineering positions.

✂ Skills & Technologies

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traits = [ "self-starter", "continuous learner", "autonomous", "passionate", "mentor",  
          "paranoid", "security-conscious", "collaborative", "pragmatic", "risk-averse" ]  
languages = { "proficient": [ "Python", "Go" ],  
             "familiar": [ "Shell", "Rust", "JavaScript", "Ruby" ] }  
interests = [ "Linux", "Infrastructure", "DevOps", "System Design", "AWS", "Reliability",  
             "API Design", "Automation", "Infrastructure as Code", "Security", "CI & CD",  
             "Containers", "Serverless", "Databases", "Incident Review & Response", "PKI",  
             "Distributed Systems", "Config Mgmt", "Auto-Remediation", "Observability" ]
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📌 Experience # [webbrowser.open\("https://linkedin.com/in/citruspi"\)](https://linkedin.com/in/citruspi)

 Hudl <i>Infrastructure Eng., Site Reliability Eng.</i>	May 2016 - February 2021	 R·I·T <i>Teaching Assistant, Advanced Free and Open Source Software Projects Seminar System Administrator, Kate Gleason College of Eng.</i>	September - December 2014
 Hudl <i>Software Eng. Intern, Infra & Site Reliability Eng.</i>	January 2015 - May 2016	 Apple, Inc. <i>Software Eng. Intern, GPU Software Eng. Org</i>	June - August 2014

📄 Recent Projects # [webbrowser.open\("https://www.mihirsingh.com/projects/"\)](https://www.mihirsingh.com/projects/)

 Macallan TLS Zero-management ACME tooling. Certificate requests handled by AWS Lambda. Certificate storage in S3 with KMS encryption. CLI tooling to make the entire process a breeze. Python Go Amazon Web Services	2017 - 2021	 Triplecask A micro implementation of the ACME v02 protocol for requesting certificates via ACME with a focus on minimal dependencies (Python + OpenSSL), DNS-01 domain validation, and easy "auditability." Python	2017 - 2021
 Quack Quack Faux AWS EC2 instance metadata service enabling role-based authentication to AWS IAM from external networks through Hashicorp Vault using the AWS SDK without changes to application code. Go Amazon Web Services Hashicorp Vault	2020 - 2021	 Metal Lion Library and server for rendering pixel-perfect SVG badges, leveraging pre-computed glyph bounding box datasets for performance and accuracy. Rust	2020 - 2021

🏆 Awards

- 1st Place, Random Hacks of Kindness Hackathon, Rochester (2013)
- Top 10 State Finalist, New Jersey Governor's Cyber Challenge (2013)
- National Finalist, U.S. Cyber Challenge (2013)
- 3rd Place, Technology Student Associate State Competition, Open Source Software Category (2013)
- Eagle Scout (2013)

🌐 Community

- Advocate for open source software, the public domain, transparency, and security
- Alum: Free and Open Source Software Applied Research Lab, Hacks/Hackers Rochester, Computer Science House
- Contributed to and maintain numerous public domain and open source projects