Nick Booher

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SUMMARY

I have 5+ years in tripping intrusion detection systems and 10+ years in building software.

EXPERIENCE

Owl Photography Enthusiast
August 2023 – December 2025
Indianola, Iowa

- Conduct optical and auditory security exercises with avian threat actors.

Skills: Patience

Professional Trick-or-Treater
January 2019 – August 2023
Indianola, Iowa

- Conducted static and dynamic information security testing to find critical computer security issues.

Skills: AI, API, AWS, Bash, Burp, CI, CSP, Django, Ffuf, Ghidra, Go, GraphQL, Httpx, JS, JSON, JWT, Kali Linux, Memcached, Nessus, Nmap, Nuclei, OAuth, Perl, Protobuf, REST, Solr, SQL, Sqlmap, Wireshark, WSL

Scientific Computing Expert
April 2019 – December 2022
Iowa State University, Ames, Iowa

- Collaborated with researchers & staff on DevOps, performance optimization, and troubleshooting.
- Built a reusable web app to securely run containerized researcher code as Kubernetes jobs.
- Developed self-service web apps to reduce onboarding time for HPC and GPU computing users.
- Investigated potential web app security incidents reported by intrusion detection system in JIRA.
- Reviewed security of custom plugins and integrated OIDC for a network of 100+ Wordpress sites.

Skills: Ansible, API, Bootstrap, CD, Django, Drupal, Git, Java, JIRA, Jupyter Notebook, Kubernetes, MySQL, OKD, Open OnDemand, OpenStack, PostgreSQL, Python, R, REST, Shiny, SLURM, SQL, Wordpress

Full-Stack Developer
February 2016 – April 2019
Iowa State University, Ames, Iowa

- Full-stack development with JavaScript, PHP, and Symfony in a collaborative team environment.
- Improved team productivity by creating a fast and friendly search interface for JIRA issue tracker.
- Built backend provisioning system for the university's website-as-a-service offering with Ansible.
- Reduced security patch time and costs for an agile network of 300 dynamic websites by 400%.
- Managed several web databases for researchers' big data genome sequencing projects.

Skills: AngularJS, Ansible, API, Bootstrap, CI, CSS, Docker, Drupal, Git, HTML, JavaScript, JIRA, JS, LAMP, MySQL, NodeJS, NoSQL, OSX, PHP, PL/pgSQL, PostgreSQL, Python, REST, Solr, SQL, Symfony, YAML

Graduate Research Assistant
August 2012 – August 2015
Cornell University, Ithaca, New York

- Increased lab productivity 20% by assembling reference genomes of important rice pathogens.

EDUCATION

B.S. Bioinformatics and Computational Biology
May 2012
Iowa State University, Ames, Iowa