

NICHOLAS KACHUR

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SUMMARY

Seasoned software engineer seeking full stack roles involving a variety of impactful, short-to-medium term projects. Interested in developing healthy work environments and mentoring junior teammates.

SKILLS AND INTERESTS

Languages	Python, C#, SQL, HTML, CSS, JavaScript, Perl, Bash, Zsh
Development Tools	Git, GitHub, GitLab, Ansible, Perforce, TeamCity, Octopus Deploy, Vim
OSes, Frameworks, etc.	macOS, Linux, Windows, Django, jQuery, SAML, Internet2 Grouper

EXPERIENCE

University of Pennsylvania

Philadelphia, PA

Application Developer

October 2022 – Present

- Built a Python Django application to search for precedent within a body of student exception requests. Set up web hosting with Apache and Unicorn and security with SAML single sign-on.
- Extracted university constituent details in multiple projects to surface their information, for example, in mailing lists and customer service tools. Used Python, Oracle SQL, APIs, and SFTP.
- Automated project deployments using Ansible configuration management.
- Determined student eligibility for software licenses using Python, Oracle SQL, Grouper, and Cron.
- Analyzed legacy Perl applications, and occasionally modified them to support ongoing operations.
- Dug into a Mendix low-code application to maintain invoicing and company card reconciliation.
- Actively fostered a healthy team dynamic, for example, kickstarting an informal weekly lunch.

Susquehanna International Group, LLP

Bala Cynwyd, PA

Software Engineer

June 2020 – October 2022

- Prevented costly mistakes in pricing configuration, session assignments, and application crashes by adding features and fixing exceptions in a suite of legacy C# .NET management apps.
- Brought an error-prone, command-line, connection manager to a user-friendly web form with C# ASP.NET, JavaScript, and jQuery behind Windows Authentication & Authorization.
- Took ownership of an order activity monitor, completing its rollout to production and delivering new features in a Python project utilizing streamed message parsing.
- Automated business readiness reports using Python, MySQL, and templated HTML/CSS emails.
- Presented on my team's migration to GitLab for source control and CI/CD, serving as a local expert.
- Responded to various production incidents as part of a weekly, business hours support rotation.
- Mentored student workers and junior teammates informally and in code review.
- Interviewed student worker candidates as part of two-person technical interviewer teams.
- Collaborated with colleagues using Jira and Confluence project management tools.

Test Automation Software Engineer**January 2018 – June 2020**

- Prevented broken financial logic entering production by writing automated tests, investigating failures, and either escalating to responsible developer or proposing my own fixes.
- Reduced build system and deployment outages by responding to departmental help requests.
- Led virtual scrum meetings through video and text chats for a team of twelve.

Test Automation Software Engineering Co-op**March – September 2016**

- Simplified my team's integration testing harness with a selective rewrite of the core functionality, trimming about 6,000 net lines of legacy code. This new harness was still in daily use 6 years later.

*Apple Inc.**Cupertino, CA***Linux and vSphere Systems Architecture Co-op****September 2014 – March 2015**

- Drafted, tested, and documented a VMware vSphere upgrade in a large corporate environment.
- Automated virtual machine reboots using the VMware vSphere Perl SDK.

*Drexel University**Philadelphia, PA***Assistant Systems Administrator****April – September 2014**

- Fixed various Linux issues under supervision, e.g., daemons not running and missing user accounts.
- Customized theme and structure of an internal documentation website built on WordPress.

EDUCATION*Drexel University, Pennoni Honors College**Philadelphia, PA***Bachelor of Science in Computer Engineering****June 2018***Philadelphia Department of Behavioral Health and disAbility Services**Philadelphia, PA***Mental Health First Aid Certificate****May 2023**