

# NICHOLAS KACHUR

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<https://kachur.me>

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## SUMMARY

Intermediate 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 Gunicorn 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.
- 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 both in code review and informal interactions.
- Interviewed student worker candidates as a representative for my team.
- 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**