

Ashton Honnecke

Software/Cloud Engineer - DevOps

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Highlights

- Self-motivated engineer focused on maintainable, reusable code and pragmatic delivery.
- Operates comfortably from low-level systems detail to high-level business outcomes.
- Clear communicator (written & verbal); results-driven and collaborative.
- Experience running/serving extremely high-scale, public-facing web properties.
- Speaker: PyColorado — [Cleaning Up Your Python Environment: Superfund Site](#).
- Speaker: PyDEN — [The Value of Linting](#).

Experience

Panasonic North America - Lead Cloud Engineer (2020-2025)

Subject Matter Expert: Python, boto3, Bash, containerization, best practices, linting, unit testing

- Chaired cross-team best-practices group (OO, SOLID, etc..); mentored devs to raise security and code quality.
- Authored ADRs for event-driven/serverless and serverful (Fargate) architectures.
- Wrote incident playbooks (classification → resolution → blameless post-mortems).
- Built internal tooling: hot Lambda mounting, quick SNS inspection, ticket↔Git integration → sharply reduced iteration time in cloud-native workflows. (See **FOSS Utilities**.)g
- Delivered artifact build pipeline cutting build time and cost.
- Worked on edge devices, packet sniffing, and hardware↔cloud integration.
- Identified/decommissioned unused AWS resources via Cost Explorer → up to ~30% infra savings.
- Drove self-hosted SonarQube rollout → increased visibility, >50% unit-test coverage gains across languages.
- Built NRT (low-latency/high-throughput) OBU ingress on Lambda/SQS/SNS with horizontal scale.

Digital Assets Data - Sr. Software Engineer / Blockchain Tech Lead (2018-2020)

Subject Matter Expert: Python, Linux, CircleCI, Lambda, Google BigQuery, smart contracts, ETH/BTC nodes

- Built Python microservices to extract on-chain data directly from cloud nodes (low-latency ingest; pandas; scheduled CloudWatch Events).
- Implemented Lambda + API Gateway microservices for cryptographic decoding; very high throughput.
- Ingestion pipelines on S3/CloudWatch/Lambda/ECS processing 100 GB nightly (30 GB files).
- Added TOTP MFA (Django/React) and hardened containerized node stacks per environment.
- “Fan-out” CI with CircleCI to parallelize PR tests; standardized unit testing & linting; containerized stacks.
- Automated dependency PRs w/ integration checks for external-API clients.
- Built centralized unhandled-exception capture/logging; added uptime monitoring.
- Mentored junior devs; supported on-call (VictorOps, OpsGenie).
- Reworked deploys into single “push-button” scripts.

Havenly - Senior Software Engineer (2015-2017)

Subject Matter Expert: Linux, Git, SDLC, data modeling_

- Designed horizontally scalable queued-ingest system: 7M+ rows/day from 25+ sources, 15 formats.
- Built decoupled pipelines: raw retention (traceability) → transform/validate/store → external API; added faceted fuzzy search.
- Planned migration CakePHP2→CakePHP3 by refactoring into OO components/behaviors for testability.

Colorado State University Global Campus - Systems Architect (pro tem) (2014-2015)

Subject Matter Expert: Linux, PHP, SQL, data modeling, SDLC, pentesting, Git, SSH

- Led architecture and SDLC improvements across web properties and data systems.

Pixelstub Consulting - Founder (2009-present)

Subject Matter Expert: Linux, PHP/JS, SQL, SDLC, pentesting, Git, SSH

- Built an MVC framework for Apache Cordova (JavaScript) for hybrid mobile deployments.
- Long-running consulting across a broad tech stack and client needs.

Photobucket - Software Engineer → Senior Software Engineer (2005-2009)

Subject Matter Expert: PayPal/credit-card payments, internal tooling_

- Created Propel-like model code-generation system with unit tests.
- Migrated raw PHP pages to an MVC framework for internal tools: payments, reconciliation, widgets.
- Owned payments & internal tooling for account management/legal processing.
- Introduced CI and unit testing; mentored engineers on design and integration.
- Built AJAX status/exception display system for consistent UX and surfaced DB exceptions (AJAX was new and cool at the time)

Skills

- Software development across multiple languages, frameworks, and stacks (~25 yrs).
- Linux/Unix administration (~20 yrs); DevOps (cloud & colo) (~10 yrs).
- Startups (founder & early-stage) (~15 yrs), including profitable exits or profitability (~10 yrs).
- Blockchain (ETH/BTC nodes, data engineering) (~2 yrs).

Speaking

- **Cleaning Up Your Python Environment: Superfund Site**
 - Slides and Code: <https://github.com/ahonnecke/pycolorado2019>
 - Video: https://www.youtube.com/watch?v=cpseEHA_haA
- **The Value of Linting**
 - Materials: <https://github.com/ahonnecke/linting-talk>

Profiles

- <https://github.com/ahonnecke>
- <https://www.linkedin.com/in/ashtonhonnecke/>

FOSS Utilities

Consolo

- Hot-mount Lambda filesystems for rapid iteration; “hot reloading.”
- <https://pypi.org/project/consolo/>

Snifter

- Fast SNS topic/message inspection from the CLI.
- <https://pypi.org/project/snifter/>

Jolly Brancher

- Git/Jira helper: find tickets, create matching branches, enforce branch hygiene.
- <https://pypi.org/project/jolly-brancher/>

Education

Master of Business Administration — University of Denver (2004–2005)

- Emphasis: Accounting

Bachelor of Computer Science — University of Denver (2000–2004)

- Minors: Mathematics, Philosophy

Selected Projects / Community

Burning Man

- Art car (2015): <https://biodieseldirigible.honnecke.us/?c=big-wheel>
- “Places” installation (2015): <https://biodieseldirigible.honnecke.us/?c=homura-sansui>

Interests

I enjoy snowboarding, cooking, board games, reading, welding, electric bass, and a steady stream of hands-on projects. I love puzzles and problem-solving and contribute to open-source projects.

Contact

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Alternative Formats

- PDF: <https://pixelstub.com/cv/cv.pdf>
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