

JEREMY NICKURAK

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SUMMARY

A Software and Systems developer and partner, driven by the chance to create, learn, and share new development expertise with high performing teams. Extensive experience in iterative improvement, and driving agile and scrum values and methodologies.

SKILLS

Strengths: Team leadership, roadmap management, scrum, agile (lowercase “a”), incident management, retrospective leadership (continual and incident-driven). Commitment to serving stakeholder needs, software craftsmanship, and continuous process improvement. Proficient in test-driven development

Tools and technologies: Git (extensive), Terraform, Kubernetes, AWS, GCP, GitHub, Continuous-Integration, virtualization/virtual-machines, Docker, containerization.

Languages: Proficient: C, Python, SQL (Postgres, sqlite), GNU Make, CMake, Perl, HTML, \LaTeX , Posix/Bash shell;

Familiar: C++, Java, Javascript, LISP, sed/awk.

Certifications: Eucalyptus Cloud Platform Training, Certified Scrum Master (Lapsed),

EXPERIENCE

HCLTECH, AT META

2024 - Present

Technical Architect

- For client Meta, innovation and compliance in technology and process in automatic hardware validation
- Education and mentoring in Python automation practice
- Directed and enhanced agile team processes, improving transparency, coordination, and team practices
- Code-review and consulting to improve long-term velocity and sustainability in a Python code base
- Leading multiple teams executing test plans for client hardware platforms through engineering/design/production phases
- Mentoring and career development for junior developers

DOTDASH MEREDITH, CLOUD OPS AND PROJECT MANAGEMENT

2020 - 2023

Project manager, team lead, senior SRE

- Developed, executed, and mentored incident management
 - Organized and drove incident retrospectives, tracking action items
 - Led cross-team incident retrospectives-as-a-service
- Supported multiple merger-driven, publishing-platform replatform projects, with an priority on incremental improvement
- Leading Resiliency team in enhancing incident response and PagerDuty automation
 - Led merged staff with onboarding into a new combined organization

- Built a roadmap and backlog for new resiliency team, including new epics and stories, plus inherited priority items
- Executed roadmap, with consideration for business priorities and team skill growth
- Delivered a single-source of truth for routing and escalation
- Supported the migration of paging tools to a unified platform, consulting with self-managed teams, monitoring for correctness and cost
- Mentored resiliency staff in SRE practices, programming, python
- Delegated and trained others responsibilities that I executed in the past
- Reported on milestones and progress for the team
- Ops/SRE
 - Helped multi-cloud squad deliver, including integration/system testing for Kubernetes systems under python
 - Built a triage process for requests incoming to the OPS/SRE team
 - Participated in on-call response on live critical incidents, both resolving directly and provided incident-command facilitation for multi-person/team responses
 - Driving and refining retrospectives, alert-reviews, team action items
 - Helping prioritize and execute on team-effectiveness improvements, automation
 - Repackaging and distribution of Sensu monitoring assets, python 2 → 3 migration

CYBERA, DATA SCIENCE TEAM

2018 - 2020

Senior Software Developer

- Helped develop software, tools, people, and teams for Cybera – Alberta's not-for-profit technology accelerator.
- As a Scrum Master, helped teams learn about and adopt agile and scrum principles, in a challenging environment of competing priorities.
- As a developer, built, reviewed, and enhanced tools in service of in-house data science platforms.
- Wrote and reviewed code and curriculum material for the Callysto computational-thinking project, including creating, reviewing, and troubleshooting Jupyter notebooks and Jupyter tools for use by Grades 5-12 students and teachers.
- Created and deployed automatic tests and test infrastructure for CI pipelines, via Jenkins and GitHub Actions.
- Mentored junior developers in the motivation and practice of software development principles, such as test-driven development, effective use of version control, refactoring.

DELL TECHNOLOGIES, DELL-EMC STORAGE DIVISION

2010 - 2018

Principal Software Developer

- Developed Dell-EMC's MetroPoint and VPLEX-RecoverPoint integrated high-availability, disaster-avoidance and disaster-recovery solutions.
 - These solutions gave enterprise customers the mobility and durability to completely avoid or recover from planned and unplanned data-center outages at some of Dell-EMC's largest customers.
 - Key responsibilities involved design and implementation of APIs for integrated solutions, debugging and solving discovered issues, and coordination and planning of cross-team infrastructure needs.
- As a delegate for architecture issues, trained new developers on key product areas, including feature operation, development, and testing methodologies. Participated in joint meetings to proactively understand feature and subsystem interactions, to discover and plan for complications before they became impactful, reviewing architecture plans, designs, and roadmaps.

- As a Scrum Master, helped my team adopt and work by agile and scrum principles and resolve day-to-day obstacles. Engaged with lead Product Owners to align business roadmaps with teams' practical software development requirements.
- Initiated a focused defect triage and analysis meeting series, bringing together engineering leaders, management, Product Owners, and Scrum Masters together to help drive multiple time-critical VPLEX releases to completion.
- Worked on-site in Israel for 2 months helping ramp up a new team, training and developing shared values and process improvements.
- Participated in requirement gathering and evaluation of Software Development Life Cycle tooling and process decisions, especially on Git branching and Continuous Integration strategy. Built consensus around current and future requirements, and how our deployment plan would ensure success and avoid pitfalls.
- Cooperated frequently with customer engineering to drive resolution to incidents, analyzing diagnostic information, collaborating on the best ways to get customers out of tense situations with minimal risk.
- Developed Mid-range storage solutions, with a special focus on building and advocating developer-efficiency accelerators. Added pytest infrastructure to detect memory allocation issues in early testing. Added build-system infrastructure to automate configurable python lint-checking.

DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF ALBERTA 2008 - 2010

Teaching and Research Assistant

- Conducted Research into virtual machine deployment and management (slimming), support for associated researchers in Bioinformatics.
- Taught and developed laboratory material for Security in a Networked World and Web Information Systems courses, including firewall (iptables), server setup, cryptography, JavaScript, PHP, Perl, SQL, HTML, CSS and JSP. Organized and presented laboratory lectures, marked assignments and projects.
- Software Carpentry, including software development practices for scientists and engineers, taught in Python.
- Recipient of the Faculty of Graduate Studies and Research "Graduate Student Teaching Award".

EDUCATION

UNIVERSITY OF ALBERTA, EDMONTON, AB 2010

M.Sc. in Computer Science

- Thesis research: Infrastructure for resource monitoring through a custom FUSE filesystem, and a filtered cloning system, building minimized virtual machine images from a profiled source input image.
<https://nickurak.ca/thesis/thesis.pdf>
- Selected Coursework: Parallel and Distributed Systems, Single Agent Search

UNIVERSITY OF ALBERTA, EDMONTON, AB 2008

B.Sc. Specialization in Computing Science

- Capstone project: In a group of 2, implemented a compiler for a subset of Pascal to a JVM-like stack machine language, using C, Flex and Bison

INTERESTS

Service: Board member for the Dev Edmonton Society, a non-profit that facilitates the Edmonton software development community – <https://devedmonton.com/>

Other: Ukulele, Science Fiction, Photography, Astronomy, Astrophysics