

Nick Bathum

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EXPERIENCE

RJG Inc. *Application Architect* • Traverse City, MI

October 2018 - Present

- Delivered Data Historian as virtual appliance
 - Simplify Client's IT experience, reduce burden compared to operating system package
 - Hypervisor images generated from one NixOS code base
 - Online pull-style updates from the cloud (AWS & Python)
- Lead CI/CD transformation by evolving SDLC practices
 - Took fragile opaque processes into reproducible traceable jobs
 - Declarative build environments (Nix) • pipeline from shared library (Groovy)
- Promote *product health* over technical debt
- Unblock team, 95% features delivered on time, without sacrificing quality
- Remodeled units of measure for consistency & correctness in physical calculations (Java)

RJG Inc. *Software Developer* • Traverse City, MI

May 2013 - October 2018

- Engineered CoPilot architecture. A process analysis and control system for plastic injection molding.
 - Built half – 25k lines– of the data layer (Java)
 - Collaboratively designed APIs for a web app & C++ program (REST, JSON, Protobuf)
 - Formulated Linux services and relations (systemd, PostgreSQL)
- Prototyped CoPilot on Lean Startup Team (Haskell)
- Ported features from legacy software, incl. new UI (QNX 4, C++)
- Coached agile principles, adapted waterfall→scrum framework

Adept Engineering Solutions *Software Engineer* • Ann Arbor, MI

June 2010 - May 2012

- Organized system upgrades, incl. Linux performance testing, data migrations, and go-lives
- Designed transactions, transport, data mapping, supporting OLTP systems (EDI)
- General support: Repaired configuration & network communication issues

Programming Languages, Tools, and Environments

- Java, Nix, git, Python, Bash, Groovy, SQL, Cloud
- PostgreSQL, Unix-like OSes, systemd, pen & paper

EDUCATION

Illinois Institute of Technology *BS in Computer Science* • Chicago, IL

May 2010

- Maj/Concentration: *Information Security*

ACTIVITIES

- Organized NixCon 2020 online edition
- Maintainer: <nixpkgs> *Python diagrams*
- Volunteer: VEX Robotics Judge *2016-2017 • 2019-2023*

CERTIFICATIONS & TRAINING

Professional Scrum Master™ I (PSM I) *Scrum.org*

July 2018

Introduction to Category Theory *Statebox.io*

July 2021