

Nicholas Nelson

SOFTWARE ENGINEER · HCI RESEARCHER

Portland, Oregon, United States of America

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Summary

Experienced full-stack software engineer with 13+ years across industry and academic environments. Expert in developing and deploying scalable SaaS products using React, Node.js, TypeScript, and modern DevOps pipelines. Founder of a consulting company delivering end-to-end solutions for SMBs. Passionate about collaborating across teams, delivering scalable service solutions, and continuously improving development processes. Strong self-starter and agile problem-solver with a PhD background in human-computer interaction and award-winning research contributions.

Skills

Programming Languages	TypeScript, JavaScript, Python, Java, Kotlin, Rust, C, C++, SQL, HTML, CSS
Frameworks & Tools	React, React Router, Next.js, Redux, Vite, Webpack, Node.js, Tailwind CSS, Material UI
Testing & Automation	Jest, Cypress, Playwright, Jenkins, TravisCI, GitHub Actions
Cloud & DevOps	Airtable, GitHub, Docker, Puppet, Ansible, Authentik, TrueNAS, Vagrant, MySQL, PostgreSQL, REST APIs
Languages	English (fluent), Spanish (conversational), German, Mandarin

Experience

Nomatic Software Consulting

Portland, Oregon, USA

Founder/Software Consultant

Jun. 2024 - Current

- Lead the design, development, and deployment of full-stack SaaS solutions tailored to SMB clients.
- Delivered Airtable-powered CRM and project management system for a \$5B Oregon agriculture industry innovation center.
- Engage directly with clients to gather requirements, propose technical solutions, and iteratively ship customer-impactful products.
- Manage cloud deployments, database architecture, and API integrations in fast-paced environments.

Oregon State University

Corvallis, Oregon, USA

Graduate Research Assistant

Sep. 2015 - Jan. 2024

- Architected a cross-platform Electron application using React, Redux, and TypeScript to improve software development workflows.
- Built CI/CD pipelines using GitHub Actions and TravisCI to automate testing and deployment across Windows, Mac, and Linux.
- Conducted user-centered research on developer tools and CI practices, recognized with Best Paper Awards (ICSME 2017, ESEC/FSE 2017).
- Led collaborations with multi-disciplinary teams to integrate user feedback into agile product development.

Microsoft Research (PROSE Team)

Bellevue, Washington, USA

Graduate Research Intern

Summer 2019

- Designed and developed interactive JupyterLab components integrating Python and TypeScript for ambient data recognition.
- Applied program synthesis (PBE) techniques to automate data transformation workflows for end-users.

Hewlett Packard Enterprise

Corvallis, Oregon, USA

Software Engineering Intern

Summer 2013

- Developed RESTful APIs and telemetry integration for warranty validation in industrial printers.
- Designed and implemented warranty claims subsystems using Python and PHP.

Samaritan Health Services

Corvallis, Oregon, USA

Systems Analyst & Help Desk Analyst

2008 - 2012

- Supported and maintained 85+ enterprise healthcare software applications and provided Tier 1/2 support for 7,000 employees.
- Delivered 99%+ customer satisfaction rating during tenure.

Education

Oregon State University

Corvallis, Oregon, USA

Ph.D. in Computer Science

2015 - 2024

- Research: Merge conflict resolution, CI best practices, human-centric developer tooling.

Oregon State University

Corvallis, Oregon, USA

B.S. in Computer Science

2012 - 2015

- Minor in Business and Entrepreneurship.

