

Jon Richards

Software Engineer

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SUMMARY

I'm passionate about how AI is transforming software engineering. My focus is twofold: helping build products that integrate AI to solve real-world problems, and bringing AI-powered tools into development processes to dramatically increase engineering velocity and impact. With decades of backend and automation experience, I'm exploring how AI can be used not just as a feature, but as a force multiplier for innovation.

EXPERIENCE

Oracle Corporation

1999–2025 | Hillsboro, OR

Software Engineer

- Most recently worked in the OCI Region Build Automation teams, helping create and maintain applications and processes used in the construction of new data centers worldwide.
- Led design and implementation of PXE-based device installation and configuration utilities using Python (OCI SDK) and Bash, streamlining setup for OCI Roving Edge Infrastructure devices.
- Automated full-rack backup and restore workflows for Oracle Cloud at Customer, cutting iteration time from 5 days to 5 hours.
- Designed benchmarking framework for OCI Digital Media Services to measure FFmpeg transcode performance across compute shapes.
- Co-invented patented VM image generation technology for multi-tier installations.

Informix Corporation

1993–1999 | Portland, OR

Software Engineer

- Developed non-preemptive threading library in assembly for SMP architectures used in RDBMS kernel development.
- Built real-time graphical tool for monitoring parallel SQL queries.
- Implemented Binary Large Object (BLOB) storage and enhanced transactional logging subsystems.

PROJECTS

PB Tourney

AI-Accelerated Development | Nov–Dec 2025

Full-Stack Tournament Management System

- Built production-ready tournament management application in 51 days with entirely AI-assisted implementation using Claude Code — 262 commits, 32K lines of code, 382 automated tests.
- Backend: Python 3.12, FastAPI, SQLAlchemy 2.0, Pydantic, JWT authentication, PostgreSQL
- Frontend: React 19, TypeScript, TanStack Query, React Hook Form, Tailwind CSS, Vite
- DevOps: Docker multi-stage builds, GitHub Actions CI/CD, Fly.io deployment, Caddy
- Architecture: Repository pattern, dependency injection, domain-driven design, comprehensive test coverage
- Project Details: <https://github.com/gorgeguy/gorgeguy-home/blob/main/projects/PBTOURNEY.md>

SKILLS

Languages: Python, TypeScript, Bash, C, Java, SQL

Backend: FastAPI, SQLAlchemy, Pydantic, REST APIs, JWT, PostgreSQL

Frontend: React, TanStack Query, Tailwind CSS, Vite

DevOps: Docker, GitHub Actions, CI/CD, Fly.io, Linux, OCI

Tools: Claude Code, VS Code, Cursor, Git, pytest, Ruff, Pyright

Patterns: Repository Pattern, Dependency Injection, TDD, Domain-Driven Design

PATENTS

US 9,690,607 — Automated VM assembly and deployment (2017)

US 9,612,803 — Multi-node virtual appliance construction (2017)

EDUCATION

B.S. Computer Science — Portland State University, Portland, OR

CURRENT FOCUS

Exploring opportunities that combine backend engineering, AI integration, and AI-accelerated software development practices.