Jake Nichols (they/them)

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Cloud software engineer with experience in client-focused applications and open-source cloud infrastructure. Currently seeking software engineer roles in cloud, full-stack, and game development to apply my experience towards excellent products for end users.

Work Experience

Game Development Intern/Associate Cloud Software Engineer
Virga, Denver CO (Remote)
January 2022-Present
- Developed a sports-action game with online multiplayer using Unity Engine and C#
- Contributed to several time-sensitive features in cloud applications for key projects at Virga on strict quality standards and deadlines
- Participated in varying CI/CD environments for pushing, testing, reviewing, and merging code.

Skills

Proficient: Golang, C/C++, C#, Python, Agile Development
Familiar: JavaScript, AWS, Kubernetes, Docker, OOP Design Patterns
Soft: Communication, Leadership, Adaptability

Projects

- **Trickster**: CNCF-sponsored reverse proxy cache for timeseries databases. Project maintainer, developed an automatic backend discovery system and several features for the 2.0 full release of the project, including support for the Flux query language for InfluxDB.
- **Gate:** User authentication built for self-hosting on baremetal servers. Project creator and main developer, built secure storage of user credentials and email-based 2FA features.
- **jnichols-dev.com/blog:** Low-cost custom blogging engine built from the ground up using Golang and AWS services on the backend and Next.js on the frontend. Includes tags, timestamps, dynamically generated listings, and automatic formatting of Markdown files.
- **iSAT AI Assistant:** Built out a frontend web application and hardware interface for iSATs student group analysis tools. Clearly communicated project progress and requirements between sponsors and the student development team, and as a member of the backend team, helping to develop methods of communicating with iSAT's existing tools.

Education

B.S. in Computer Science
University of Colorado Boulder
August 2019-May 2023, GPA 3.5