

# Kyle Yetter

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Software engineer with expertise in Ruby, JavaScript, and Python, delivering impactful solutions for major business entities in many industries. Skilled in developing web applications and improving systems. Led the design and operation of large-scale GraphQL API platforms using Apollo-based federation strategy. Architected well-structured, fault-tolerant, maintainable suites of REST APIs for multiple employers. Innovated tooling to accelerate API development, testing, and integration. Experienced in cloud infrastructure, distributed systems, and mentoring engineering teams to foster high standards in API design and operational excellence.

## Work Experience

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### GitLab

Richmond, VA USA (Remote) | Nov 2023 - Present

#### Senior Software Engineer

- » Directed research, design, and implementation phases for specialized on-demand backup tool, collaborating with senior engineers to address complex data durability challenges across diverse deployment environments
- » Architected comprehensive backup solution for disaster recovery across all GitLab installation types (SaaS, self-hosted, and managed dedicated), leveraging AWS and Google Cloud Platform infrastructure
- » Resolved critical bugs in GitLab's enterprise Geo feature, ensuring reliable data synchronization and minimizing unexpected downtime incidents across hundreds of enterprise-scale globally distributed self-hosted installations
- » Mentored junior engineers through formal mentorship program, providing technical guidance and career development support
- » Led a GitLab team member resource group that included roughly 100 team members, promoting inclusivity and supporting underrepresented team members through targeted initiatives

### Wonolo

Richmond, VA USA (Remote) | Jun 2022 - Jun 2023

#### Senior Software Engineer II

- » Partnered with the Trust and Safety team to direct the integration of Wonolo's data with Unit21, a fraud detection and case management system, enabling detection of hundreds of fraudulent activities per quarter and reducing manual review time by 80%
- » Developed and maintained Apache Airflow DAGs to synchronize live application data, warehoused data, and real-time user events with third-party integrations
- » Oversaw the Wonolo admin site and implemented improvements for support agents and internal customers

### TaskRabbit, Inc

Richmond, VA USA (Remote) | Jan 2019 - Jan 2022

#### Senior Software Engineer

- » Built foundational platform for company integration with Twilio Segment, enabling the Trust and Safety team to respond to fraudulent activity 75% faster
- » Established and executed tooling integrations for marketplace Operations teams
- » Researched and designed GraphQL API for use by mobile and web apps
- » Provided server-side engineering support for TaskRabbit's mobile and web apps, resolving dozens of critical incidents and drastically improving backend performance
- » Penned a regular series of articles on Ruby programming best practices, contributing to internal knowledge sharing and skill development.

### eBackpack, LLC

Richmond, VA USA | Sep 2013 - Sep 2018

#### Senior Developer

- » Built fully-featured test authoring and administration system which allowed hundreds of teachers to create rich assessments with automatic scoring and reporting
- » Established automatic synchronization of assignment and activity due dates to students' Google and Office calendars

- » Created a multi-platform mobile app using Apache Cordova to report grades and assignments to parents
- » Led primary product development and maintenance for eBackpack, delivering new features and enhancements in an agile environment
- » Coordinated devops activities for a fleet of application servers and company equipment

## InMotion Hosting

Virginia Beach, VA, USA | Dec 2011 - Aug 2013

### Developer

- » Designed and implemented a new product for hosting customers -- McAfee advanced spam filtering, a complex project that coordinated hosting servers, payment systems, customer records, and third-party service APIs
- » Performed development and maintenance on the company's account management website using agile techniques

### System Administrator III

- » Authored over ten tools to automate administration tasks, distributing and managing them as RedHat packages, saving hundreds of labor hours per quarter for the admin team and adopted by a team of one dozen administrators
- » Maintained a Chrome extension that streamlined work for customer support representatives, reducing average call handling time by roughly 50% and improving call center efficiency

## Projects

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### ANLTR3 for Ruby

Jan 2009

- » Architected and implemented a full Ruby runtime library for ANTLR3 and StringTemplate target templates, enabling Ruby developers to generate language recognizers directly in their applications.
- » Developed Java-based integration classes and support scripts to orchestrate Ruby code generation with ANTLR3.
- » Authored comprehensive documentation and example grammars.

## Education

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### University of Virginia

Bachelor of Science (B.S.) in Electrical Engineering

Aug 2005

## Skills

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**Programming Languages:** C/C++, Java, JavaScript (ES6+), Python, Ruby, TypeScript

**Ruby & Rails:** Capybara, Rails, Rake, RSpec, Rubygems, Sinatra

**JavaScript & Frontend:** Node.js, npm, React

**Databases & Data Stores:** Elasticsearch, MySQL, PostgreSQL, Redis

**APIs & Integration:** GraphQL, OpenAPI, RESTful APIs

**Data & Observability Tools:** Apache Airflow, DataDog, Segment

**DevOps & Infrastructure:** Ansible, Apache HTTP Server, CircleCI, Docker, Git, GitHub, GitLab, Kubernetes, Nginx, Puppet, System Architecture, Terraform

**Cloud & DevOps Platforms:** Amazon Web Services (AWS), Google Cloud Platform (GCP)