

Trevin K. Faulkner

Senior Backend Developer



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PROFILE

I am a Senior Software Developer and Backend Engineer with over 10 years of full-time experience delivering scalable, secure, and cloud-native applications across finance, mining, energy, and education industries.

I specialize in backend development using Python frameworks such as Django, FastAPI, and Flask, with hands-on experience building microservices, RESTful APIs, and real-time data platforms.

I am also skilled in DevOps automation and cloud infrastructure using Docker, Kubernetes, Jenkins, GitHub Actions, and Terraform.

I follow Agile, CI/CD, and Test-Driven Development (TDD) practices to ensure high-quality, secure, and production-ready code.

Recent impact: Successfully helped scale backend infrastructure to support rapid growth in user base and client demand - enabling Turing to onboard 4M+ developers and 100+ countries.

EDUCATION

Master of Computer Science

University of Tampa

08/2010 – 05/2014 | Tampa, FL, USA

Developed expertise in scalable system design, software architecture, and emerging technologies through advanced coursework and hands-on projects.

PROFESSIONAL EXPERIENCE

Turing Enterprises Inc.

Senior Backend Developer

01/2023 – 10/2025 | Palo Alto, California, USA

- Successfully helped scale backend infrastructure to support rapid growth in user base and client demand - enabling Turing to onboard 4M+ developers and 100+ countries.
- Reduced time-to-hire by automating vetting and matching backend workflows, shortening hiring cycles from a week to 4 days.
- Engineered a new asynchronous job dispatch system, reducing server latency by 30ms and increasing system uptime to 99.95%, contributing to a 20% rise in satisfaction.
- Contributed to backend architecture that supported remote-first workflows and global scale, enabling developers worldwide to collaborate under consistent APIs and services.

Platinex Inc.

Senior Backend Developer

06/2020 – 10/2022 | Toronto, Ontario, Canada

- Successfully overhauled backend data systems, enabling a 3x increase in supported exploration-project data and investor-relations content while maintaining peak performance.
- Reduced document publication turnaround time by 40% and decreased disclosure errors by automating key backend workflows used for investor-facing reports.
- Implemented multi-factor authentication across all internal systems, cutting unauthorized access attempts by 60% and strengthening security for more than 150,000 users.
- Maintained 99.9%+ uptime during high-traffic events—including press releases and stock-market announcements—ensuring uninterrupted availability and protecting investor trust.

MentorCruise

Backend Developer

01/2018 – 05/2020 | Sheridan, Wyoming, USA

- Launched a scalable mentor-mentee matching and payment infrastructure, supporting more than 6,600 active mentors and 1.2 million+ mentees worldwide and enabling seamless global engagement.

SKILLS

Core

- Python, PHP, Node.js
- Django, FastAPI, Express
- RESTful API design & development
- GraphQL API development
- Microservices architecture
- Asynchronous programming
- Object-Oriented Programming (OOP)
- Design patterns & clean architecture

Database

- PostgreSQL, MySQL, MongoDB
- Query performance tuning
- ORM proficiency (Django ORM, SQLAlchemy, etc.)

Cloud & DevOps

- AWS (EC2, S3, Lambda, RDS, CloudWatch)
- Docker & containerization
- Kubernetes
- CI/CD pipelines (GitHub Actions, GitLab CI, Jenkins)

Message Queues & Distributed Systems

- Celery + Redis Queue
- RabbitMQ
- Kafka

Security & Authentication

- OAuth2, JWT, SSO
- Data encryption & secure storage

Testing & Quality

- Unit testing (pytest, unittest)
- Integration & end-to-end testing
- Debugging & profiling

System Architecture & Scalability

- Load balancing
- Caching strategies
- Horizontal & vertical scaling
- High availability & distributed system patterns

Collaboration & Tools

- Git & version control
- Agile/Scrum
- API documentation (Swagger/OpenAPI, Postman)

- Reduced API latency by up to 45% and boosted backend performance through query optimization, strategic caching, and refactoring of core services.
- Improved platform stability and cut downtime by 30% by implementing automated testing pipelines and establishing a reliable CI/CD workflow.
- Strengthened platform security by enforcing advanced data-protection standards, directly improving user trust and supporting compliance with modern privacy regulations.

Trakstar

Backend Developer

05/2015 – 12/2017 | Seattle, Washington, USA

- Supported backend development for Trakstar Hire, contributing to features used by thousands of recruiters managing high-volume hiring workflows.
- Aided in building and enhancing APIs for job postings, candidate tracking, and interview scheduling, improving overall platform efficiency and user experience.
- Assisted in debugging and resolving backend issues, helping reduce error rates and improve system performance for active customers.
- Worked with senior developers on database updates, schema modifications, and code refactoring efforts that increased maintainability and reduced technical debt.
- Integrated third-party services—including email tools and job-board connectors—helping expand platform functionality and streamline workflow automation.
- Collaborated with frontend, QA, and product teams to deliver feature updates and support cross-functional testing, contributing to faster release cycles.
- Assisted with system monitoring, log analysis, and production troubleshooting, helping maintain platform reliability and minimize downtime.