

Alex Lynn Buntrock

Senior Software Engineer

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PROFILE

Senior Software Engineer specializing in backend and full stack development across healthcare, SaaS, and enterprise domains. Expert in Golang, Python (Django, Flask, FastAPI), and Java (Spring Boot), with proven success building REST/gRPC/GraphQL APIs, microservices, and data-driven platforms. Skilled in cloud and DevOps (AWS, Azure, GCP, Docker, Kubernetes, Terraform, CI/CD), databases (PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch), and security standards (OAuth2, JWT, HIPAA, OWASP). Experienced in AI/ML engineering with TensorFlow, PyTorch, Hugging Face, and LangChain, integrating predictive analytics, NLP, and LLM-based features to deliver intelligent, scalable solutions.

Professional Experience

Senior Software Engineer, *Pydantic*

04/2023 – Present

- Built and maintained SaaS platforms with Golang and Java (Spring Boot), serving over 100k users with 99.99% uptime.
- Developed REST/GraphQL APIs using PostgreSQL, MongoDB, Redis, and Elasticsearch, improving query performance by 50%.
- Modernized frontends with React, Angular, Next.js, and TypeScript, enhancing accessibility and performance.
- Deployed cloud-native architectures across AWS, Azure, and GCP using Docker, Kubernetes, and Terraform.
- Automated CI/CD pipelines (Jenkins, GitHub Actions, GitLab CI) and improved observability with Prometheus, Grafana, and ELK Stack.
- Secured systems via OAuth2, JWT, IAM, and OWASP-compliant encryption, ensuring enterprise-grade reliability.
- Built real-time streaming features with gRPC, WebSockets, and Kafka, enabling instant data synchronization.
- Increased test coverage to 90%+ with JUnit, Go test, Jest, and Cypress; mentored teams in full stack and DevOps best practices to boost delivery efficiency.

Senior Full Stack Engineer, *Infinite Red*

02/2020 – 01/2023 | Vancouver, WA

- Built and maintained healthcare APIs processing millions of records with 99.9% uptime, ensuring full HIPAA compliance.
- Developed REST/GraphQL APIs with PostgreSQL, MongoDB, Redis, cutting latency by 45% and optimizing data throughput.
- Implemented AI/ML models using TensorFlow, PyTorch, scikit-learn, improving prediction accuracy and provider data reliability by 30%.
- Integrated NLP pipelines with Hugging Face and LangChain for automated eligibility checks and intelligent provider matching.
- Designed real-time data pipelines with Kafka, gRPC, and WebSockets, enhancing data freshness and synchronization.
- Migrated to Dockerized microservices on AWS (EKS, Lambda, S3, RDS), improving scalability and reducing downtime by 40%.
- Automated CI/CD with GitHub Actions and Jenkins, enabling daily deployments and continuous delivery.
- Strengthened observability and reliability using Prometheus, Grafana, and ELK, reducing MTTR by 35%.
- Partnered with data teams on Spark/Pandas ETL pipelines for ML model training on 10M+ records.

Full Stack Developer, *ServiceNow*

03/2018 – 12/2019 | Santa Clara, CA

- Optimized PostgreSQL and MySQL databases, improving query performance by 40% through advanced indexing and caching strategies.
- Built data-driven REST APIs for enterprise systems, ensuring scalability and reliability across millions of records.

- Designed and managed ETL pipelines for financial and operational data, accelerating analytics and reporting workflows.
- Deployed Dockerized Golang services on Oracle Cloud and AWS, collaborating with DevOps teams to ensure secure, high-availability delivery.

Backend Developer, Particle Health

01/2016 – 02/2018 | New York, NY

- Built and maintained provider data platforms with 99.99% uptime, supporting high-volume healthcare transactions.
- Developed and optimized REST/gRPC APIs with PostgreSQL, MySQL, MongoDB, and Redis, improving response times by 45%.
- Implemented real-time data pipelines using Kafka, WebSockets, and Golang concurrency, ensuring accurate, low-latency updates.
- Deployed Golang microservices on AWS (ECS, Lambda) and Azure using Docker and Kubernetes for cloud-native scalability.
- Ensured HIPAA compliance and secured APIs with OAuth2, JWT, and IAM policies.
- Enhanced observability via Prometheus, Grafana, and ELK Stack, reducing incident resolution time by 30%.
- Improved test coverage (85%+) using Go test, Postman, and Cypress, lowering production defects and improving reliability.

EDUCATION

Bachelor Degree in Computer Science, Coastal Carolina University

08/2012 – 05/2016 | Conway, SC

SKILLS

Frontend React, Next.js, Angular, Vue, Tailwind, Material UI, etc.	Backend Node, Django, Flask, NestJS, Go, .NET, APIs, GraphQL, gRPC.	Databases PostgreSQL, MongoDB, MySQL, Redis, Elasticsearch, Spark/Hadoop.
Security OAuth2, JWT, IAM, OWASP.	AI/ML LangChain, Hugging Face, Pinecone, Spark pipelines.	Cloud/DevOps AWS, Azure, GCP, Docker, Kubernetes, Terraform, Jenkins, Prometheus, Grafana.
Testing Cypress, Jest, Mocha, Playwright, Selenium.	NLP & LLMs Hugging Face, spaCy, LangChain, BERT, GPT, RAG, Vector DBs (FAISS, Pinecone, Weaviate)	