AKASH GILL

Sr. Software Engineer

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SUMMARY

I'm a backend engineer with strong frontend awareness, focused on building reliable, scalable systems. I've owned labor and time-clock platforms, led migrations from AWS Lambda to Kubernetes, and built production-grade CI/CD pipelines using GitHub Actions.

I work across APIs, infrastructure, and deployment workflows, delivering compliance-critical features with a strong focus on correctness, observability, and maintainability.

I also use modern AI-assisted development tools to speed up prototyping, refactoring, and automation while applying sound engineering judgment to keep systems clean and reliable.

SKILLS

Programming Languages: Golang, Python, React, Java, JavaScript, C# .NET, Angular, SQL, HTML/CSS

Practices & Frameworks: CI/CD, Agile, API Integration, GORM, Gin, RESTful APIs, Application Design

Tools & Platforms: AWS (Lambda, S3), GitHub Actions, Datadog, Docker, Kubernetes, Postman, VS Code

SOFTWARE

VS Code
Advanced

Postman
Advanced

MongoDB
Very Good

DynamoDB
Very Good

PostGres
Very Good

PGadmin
Good

EDUCATION

Aug 2014 - May 2016
Master of Science: Computer Science

Binghamton University, State University of New York | Binghamton, NY
Master of Science in Computer Science GPA: 3.67/4.00

Aug 2007 - Jun 2011
Bachelor of Science: Computer Science
Guru Nanak Dev University (GNDU) | India
Bachelor of Technology in Computer Science & Engineering

WORK HISTORY

Aug 2019 - Current
Sr. Software Engineer
SpotOn - Royal Oak, MI

- Leading early-stage design and technical analysis for an AI assistant extension to the labor dashboard, leveraging LLM orchestration (LangChain, RAG, multi-agent patterns) to help merchants and managers query dashboards, navigate features, and improve scheduling efficiency.
- Designed and wrote Python migration scripts for PostgreSQL to automate schema updates, complex data backfills, and conditional inserts for overtime and auto clockout rules.
- Architected and developed a full-stack time clock system in Go, including a Labor API backed by PostgreSQL. Led the React frontend implementation, featuring clock-in/out, break management, and role selection screens with real-time shift tracking, based on Figma designs. Employed GORM hooks for audit logging and session management, ensuring accurate data tracking and integrity. Managed CI/CD deployments to staging and production for consistent testing and seamless updates.
- Led a team of 4 engineers to develop a receipt service using Go and AWS Lambda, designed to store restaurant receipts in a centralized database with Datadog integration for real-time logging and tracing. The service includes SMS functionality, enabling customers to easily access receipts electronically on their phones, eliminating the need for printed receipts and significantly reducing printing costs for restaurants.
- Developed a high-performance RESTful API using Gin framework to manage time clock entries in DynamoDB, implemented CRUD operations, optimized the service by switching Gin to release mode, and integrated Kubernetes liveness and readiness probes for robust health monitoring.
- Led change management initiatives(tech-reorg) to drive organizational transformation without compromising employee morale or productivity levels.

- Created QR code with Apple & Google pay icons on receipt for restaurant using highly complex printer commands in Go resulting increase by 62% scan & pay transactions with 9pp(percentage point) shift from credit card transactions to Mobile Payment transactions(Apple & Google Pay).
- Conducted technical and behavioral interviews at SpotOn to help assess skills and team fit across roles.
- Led the integration of SpotOn's POS system with HotSchedules, developing a service in Go that securely transfers data via FTP and stores backups in AWS S3 bucket, enabling complex data extraction from MongoDB. Successfully deployed to hundreds of restaurants within two weeks, optimizing labor scheduling and establishing SpotOn as a top client.
- Provide back end support for all web clients on online ordering system that includes developing 100's of new features and 20+ api's
- Deployed numerous prod/QA releases including both front end and back end utilizing legacy AWS deployment as well as new CI/CD tag based deployment process.
- Single handedly developed swipe up card feature in restaurant point of sale(POS) that opens up current order with tab open drastically improving efficiency of restaurant workers (React)
- Fixed countless hot bugs in current system that requires quick response time in live environment

Jun 2016 - Jul 2019
Applications Developer
Genisys Credit Union - Auburn Hills, MI

- Developed a real-time electronic funds transfer system composed of a customer-facing interface for managing transfer requests and an internal staff application featuring live request management and processing capabilities, using Bootstrap, Angular, Golang, and WebSockets; digitized previously manual processes, reduced operational processing time by ~70%, significantly lowered paper usage and printing costs, and enhanced customer and employee user experiences.
- Improved efficiency and performance by developing card maintenance system using Angular that helped in reducing manual process cost by 80% to company
- Provided maintenance to new and existing applications for any changes rolled out in quick and faster way
- Communicated with vendor teams to provide required data using BigQuery for external processes

- Contributed in major application development for more than 10 high impact modules
- Optimized application performance by identifying and rectifying coding inefficiencies

Jun 2015 - Aug 2015
Summer Analyst
Bank Of America-Merrill Lynch - Pennington, NJ

- Automated process of maintaining highly complex metadata tables residing in SQL Server by designing and developing web based system(ASP.NET) using AGILE methodology that reduced cost, effort and complexity involved during maintenance
- Prepared independently software design document (SDD) that constitutes all features of developed system
- Implemented freeze header and column feature in various grid views of system during scrolls using Jquery

Sep 2011 - Jun 2014
Systems Engineer
Morgan Stanley & Lloyds Banking Group With Tata Consultancy Services(TCS) - Pune, AZ

- Led new team members and explained objective of project through knowledge transfer sessions
- Developed and deployed new code as well as existing code that need changes for different type of transactions required by customer in development environment
- Created simple to complex SQL queries in order to fetch data from Oracle database for diverse business requirements
- Worked independently and collaboratively with ETL team members to achieve encryption of data of 300+ applications using Informatica in all non-production environments
- Communicated with application teams to get production data for testing purposes
- Recognized with "On the Spot Award" for strong leadership skills, hard work and outstanding contribution to organization

OPERATING SYSTEMS

Mac
Excellent

Windows
Very Good

Ubuntu
Very Good

Linux
Very Good

INTERESTS

Captain of undergraduate school cricket team

Student manager in Athletics Department & Sodexo at Binghamton University

Organized events such as town hall meetings, propel sessions and weekly fun activities at workplace