

Subject: Application for Lead Software Engineer (Backend) Role

Dear Jamie Glenn,

I hope this message finds you well. I am writing to express my enthusiastic interest in the Lead Software Engineer (Backend) position at Knock. With over 15 years of extensive experience in backend development, cloud computing, and software architecture, I am confident in my ability to significantly contribute to your team and help drive the success of your platform.

Throughout my career, I have demonstrated a strong commitment to designing and implementing scalable, secure, and efficient backend systems. At Hawaiian Airlines, I led the development of touchless kiosks and scanless boarding using AWS Lambda and IoT, resulting in a 20% efficiency gain. My ability to leverage AWS services, including API Gateway, CloudFormation, and Lambda, aligns perfectly with the technical qualifications required for this role. Additionally, I have extensive experience in API development, both RESTful and GraphQL, which has been crucial in creating robust customer-facing applications and services.

I am particularly drawn to this role at Knock because of the emphasis on creating scalable and observable systems. My work at Dell, where I optimized the OS10 Open Network Initiative and improved backend performance by 20%, has equipped me with the skills needed to design and maintain high-performance systems. Moreover, my experience in building and updating CI/CD pipelines and my proficiency with distributed systems and various AWS components make me well-suited to handle the complex backend challenges at Knock.

One of my core strengths is my ability to mentor and lead teams. At Cisco, I founded the Cisco Angel Network to foster early-stage partnerships with startups and led Agile projects that resulted in significant cost savings and efficiency improvements. I am passionate about continuous learning and supporting the growth of my team members, which I believe is essential for fostering a collaborative and innovative work environment.

Living in Raleigh, NC, I bring the added benefit of being within close proximity to Knock's headquarters. While I understand the position is remote, my location allows for flexibility and the potential for in-person collaboration when needed, further enhancing my ability to contribute effectively to the team.

I am excited about the opportunity to bring my skills and experience to Knock and contribute to the development of innovative solutions that enhance customer experiences. Thank you for considering my application. I look forward to the possibility of discussing how my background, skills, and passion align with the goals of your team.

Best regards,

Peter Gits

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<https://linkedin.com/in/petergits>

630-209-7542

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Lead Software Engineer (Backend)

Innovative Lead Software Engineer with over 15 years of experience in backend development, specializing in designing, architecting, and maintaining scalable systems. My passion lies in building robust backend services, with proven expertise in Node.js and AWS services like Lambda, S3, and CloudWatch. I have a track record of implementing secure, observable systems and optimizing API performance. At companies like Hawaiian Airlines and Dell, I led projects from conception to deployment, enhancing user experiences and operational efficiency. With a blend of technical proficiency and a mentoring spirit, I thrive in dynamic environments, committed to continuous learning and fostering inclusive practices. Passionate about solving real-world problems with elegant, scalable solutions.

Areas of Expertise

- AWS Lambda
- Node.js
- API Development
- Serverless Architecture
- AWS Services Integration
- CloudFormation
- SQL and NoSQL Databases
- Microservices Architecture
- API Gateway
- CI/CD Pipelines
- RESTful and GraphQL API Development
- Infrastructure as Code (IaC)
- Debugging and Error Handling
- Security Best Practices
- Monitoring and Logging

Accomplishments

- Implemented touchless kiosks and scanless boarding at Hawaiian Airlines using AWS Lambda and IoT, achieving a 20% efficiency gain.
- Developed automated testing frameworks with Go, enhancing code coverage, functional testing, and reliability by 72%.
- Created an ML model with 89.3% accuracy to predict flight jeopardy, optimizing airport operations.
- Built a proximity detection system for Hawaiian attendants using AWS serverless architecture, improving boarding efficiency by 12%.
- Designed and developed backend logic for web and mobile applications using Node.js for AWS.
- Increased mobile dev iteration cycles at McDonald's from 3 to 25 per day by creating a Golang Docker SwaggerHub mock interface.
- Led AI model pilot at McDonald's, reducing mobile order prep time by 15%.
- Optimized OS10 Open Network Initiative at Dell, halving build time and improving backend performance by 20%.
- Enhanced engineering engagement and ease of use at Dell by 31% through multi-channel delivery feature development.
- Architected and deployed mobile enterprise experiences at Adient, winning the Frost & Sullivan 2017 Manufacturing Leadership Award.
- Designed frictionless login systems using OAuth2, TouchID, and Digits at AbbVie.
- Founded Cisco Angel Network to facilitate partnerships with startups, leveraging Cisco engineers.
- Led team to build NetLurkers at Cisco, securing 20 patents in distributed computing and implementing early Agile processes.
- Built automation validation for a Python web crawler at GeekGaps.com, constructing a MySQL relational database backend.
- Developed and deployed augmented reality and IoT experiences, showcasing innovative solutions in mobile app development.

Career Experience

Principal Architect, Hawaiian Airlines, Honolulu, Hawaii

05/2021 - 02/2024

- Implemented touchless kiosks and scanless boarding using AWS Lambda and IoT, achieving a 20% efficiency gain by reducing wait times and leveraging real-time passenger traffic video monitoring to fill seats faster.
- Developed automated testing frameworks with Go, enhancing code coverage, functional testing, and reliability by 72%, and utilizing AWS CLI for streamlined integration.
- Created an ML model with 89.3% accuracy to predict flight jeopardy, aiding late passengers and optimizing airport operations while effectively driving business requirements.
- Built a proximity detection system for Hawaiian attendants using AWS serverless architecture, improving boarding efficiency by 12% with real-time data processing within a range of 25ft-4in.
- Designed and developed backend logic from architectural design patterns into working components for web and mobile applications, including APIs and web sockets, using Node.js for AWS.
- Utilized SQL and NoSQL databases, such as MySQL and MongoDB, for robust data management and storage solutions.

- Documented technical details for product development and performed thorough code reviews to ensure high-quality deliverables.
- Managed source code using versioning tools like Git and Bitbucket, ensuring efficient and organized code collaboration.
- Proficiently used AWS components including API Gateway, Queues, and CloudFormation to develop scalable and reliable microservices

Senior Innovation Architect, McDonalds, @CapgeminiAirlines, Chicago, IL **09/2019 - 05/2021**

- Increased mobile dev iteration cycles from 3 to 25 per day by creating a Golang Docker SwaggerHub mock interface for iOS & Android, enabling independent backend dev & test, designed the database schema, as well as the test strategy.
- Led team to pilot AI model reducing mobile order prep time by 15% (improved quality, freshness, reduced waste).

EngOps Senior Software Architect, Dell, San Jose, CA **07/2017 - 09/2019**

- Optimized OS10 Open Network Initiative by halving build time, 20% backend improvement (Jira, GitLab, Jenkins), and stronger tracking software with 14% fewer build errors.
- Enhanced engineering engagement and ease of use by 31% through iterating the coding and development of a multi-channel delivery feature in the content management system.
- Led GoLang team to develop analysis package for infrastructure changes, improving trend development and velocity calibration.

Director of Mobile Strategy & Dev, Adient Holland, MI (largest car seat manufacturer) **10/2016 - 07/2017**

- Architected, developed, and deployed 3 IOS mobile enterprise experiences by integrating Siri and implementing deep linking to improve the enterprise user experience with regards to wave finding, simplifying the number of clicks and improving the overall user experience.
- Winner of the Frost & Sullivan 2017 Manufacturing Leadership Award for outstanding achievements in developing mobile solutions for IOS and Android.

Senior Mobile Architect, AbbVie, North, Chicago, IL (pharma) **07/2015 - 10/2016**

- Designed frictionless login (multi-factor with OAuth2, TouchID, Digits) for iOS app (ported to Android prototype).
- Built "tag & bag" anesthesia canister application for Supply Chain, saving thousands of man-hours locating equipment.

Market Manager / CTO, GeekGaps.com, Chicago, IL **07/2013 - 09/2019**

- Built 3 mobile apps (2 iOS, 1 Android) using disruptive technologies & explored wearables with Raspberry Pi & Arduino for proximity-based IoT experiences.
- Repurchased patent, deployed "Digital Graffiti" with geo-fenced coupons for Desigual at Mobile World Congress (creative agency, client acquisition & delivery).
- Augmented Reality:
 - o TripWire for Groupon (never miss a Groupon next to you)
 - o Secret Drink of the Week - Starbucks IOS app Siren -- augmented Reality icon hovers in every Starbucks store, click on it to see the secret drink recipe for that week.
- Built automation validation for a Python web crawler (CI/CD with Git) constructing a MySQL relational database backend using LAMP/PHP,HTML5, and Javascript.

Senior Software Architect, Cisco Systems, San Jose CA **08/2009 - 01/2013**

- Founded Cisco Angel Network (pre-seed) to leverage Cisco engineers for early-stage partnerships with innovative startups.
- Led team to build NetLurkers, the first distributed SIP service (Java, Jini), securing 20 patents named "Scalable Infrastructure" and \$4M in Sun equipment (grew team from 5 to 75+) implemented early Agile development processes.
- Led Agile projects, including an AR conference room solution ("Transparent Walls") that saved \$1M+ annually, and negotiated add-on projects through pre-sales communication diagnose and resolve salable issues leveraging deep knowledge of routing skills and public transport stacks.

Additional Titles Held:

Director of Software, Zymed, Camarillo, CA, (Holter medical device mfg)
 Clinical Trials - Sr. Architect, Corning Nichols Institute, San Juan Capistrano, CA
 Marketing Manager - Midwest Information Systems, Inc.

Education

University of Illinois, Champaign/Urbana Masters Computer Science 14 Hrs left to complete