

# JAYLEN DOUGLAS

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Atlanta, GA

## SUMMARY

Experienced Software Engineer with 7 years of web development expertise, specializing in backend technologies. Proven track record in designing and implementing high-performance, scalable systems. Skilled in cloud-native development, microservices architecture, and DevOps practices. AWS Certified Cloud Practitioner with a strong foundation in computer science and a passion for continuous learning.

## HIGHLIGHTS OF QUALIFICATIONS

- Languages: Java, Python, JavaScript, Go
- Cloud: AWS (EC2, ELB), DigitalOcean (Droplets, Spaces, Managed DB)
- Containerization: Docker
- Databases: MySQL, Oracle 19c, MongoDB
- API: RESTful APIs, GraphQL
- DevOps: CI/CD (Github Actions, Jenkins)
- Microservices Architecture
- Agile Methodologies
- Version Control: Git

## PROFESSIONAL EXPERIENCE

JP Morgan Chase & Co | Atlanta, GA

Senior Software Engineer  
December 2022 - Current

- Architected and implemented high-availability solutions for mission-critical applications, collaborating with cross-regional development teams
- Developed and maintained RESTful APIs handling over 10,000 requests per minute, serving 19,000 daily users
- Optimized cloud-native solutions for distributed computing environments, improving system performance
- Implemented microservices using Spring Boot, enhancing system modularity and scalability
- Conducted root cause analysis and resolved critical issues, reducing system downtime

From The Culture | Atlanta, GA

Lead Software Engineer  
November 2023 - January 2025

- Oversee a team of 5 engineers, leading the development and deployment of mobile applications and backend services
- Successfully launched two mobile applications (Culture Forward and NextUp AI) on Apple App Store and Google Play Store using React Native
- Architected and implemented backend systems using BunJS (ElysiaJS), NodeJS (ExpressJS), and Golang (Gin framework)
- Utilized cloud technologies including AWS and Digital Ocean for infrastructure management

- Implemented robust authentication and storage solutions using Supabase and MongoDB Atlas
- Established CI/CD pipelines using GitHub Actions, enhancing deployment efficiency and code quality
- Implemented comprehensive logging and monitoring solutions using Winston and Axiom
- Optimized application performance through PM2 for application load balancing and Nginx for server-side load balancing

Johnson & Johnson

Software Developer  
May 2018 - December 2022

#### Highlights

- Developed Python and Node.js APIs for healthcare solutions, integrating with internal and external systems
- Led quarterly development center meetings to showcase global software solutions
- Established code standards and implemented extensive code reviews, improving code quality
- Leveraged Agile methodologies to accelerate development lifecycle, reducing time-to-market

#### IoT

- Developed a global tracking network for the company's pharmaceutical supply chain. Using telemetry data, we track the state of packages in real-time. In one example, it gives distribution centers information about time-sensitive packages; allowing efficient inventory processing. - *Janssen Track and Trace*

#### Medical Devices

- Worked on the initial team that began developing breakthrough technology for knee surgery. This technology included software for the knee surgery robot and a "sneaker-net" approach to updating this robot without needing an online network; for security reasons.
- Developed the ReactJS web application for eyecare doctors, which allowed the doctor to input patient detail, then return an appropriate contact lens match. It also connected to our Acuvue contact lens vending machine.

#### EDUCATION

- Bachelor of Science in Computer Science, Johnson & Wales University, 2018
- AWS Certified Cloud Practitioner, 2023

#### PROJECTS

June 2017 to Current

##### *Open-Source*

- Polysecrets - A randomized secrets generator for server-side security and key generation
- Mongrations - A Python database migration tool, compatible with MongoDB, MySQL & PostgreSQL
- PyPM - A Python project management tool, similar to npm

##### *Closed-Source*

#### **Integrated Credit Risk Desktop**

A web application used to inquire or submit data related to credit risk or any credit risk function, such as evaluating the probability of a financial loss resulting from a borrower's failure to repay a loan, and/or taking action on a borrower's credit health.

### **Query Service**

A Java Spring Boot RESTful API used by credit risk reporting tools to query strategic stress data. For performance improvements, I introduced a caching service to the API which drastically improved the response time per request. Average request time went from ~1-3 minutes to less than 1 second. The cache service had a Fill and Pre-fill operation. Fill is based on caching per initial request, while Pre-fill runs the fill operation overnight for a predefined list of clients, which caches the results prior to user needs.

### **Deliver Data Service**

The purpose of the DELIVER Data Service (DDS) is to accumulate sensor, location, GPS, shipment, and carrier data from a myriad of different sources and process and store that data within a single database. The data service will consolidate similar data in order to maximize ease of use. This service is used by multiple vendors. The DELIVER Data Service will utilize Azure for hosting the different components of the system. The system will make use of the Azure event hub, Azure storage blobs, Microsoft SQL server, virtual machines, and load balancers.

### **Loomis (Full-stack/iOS)**

A full stack application paired with an iOS mobile app used by Ophthalmologist to provide the most accurate contact lenses for a patient, based on patient data. This unique application paired with a contact lens vending machine.