

# Lorenzo King III, Backend Engineer

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## PROFILE

Seasoned Backend Engineer with experience in designing, building, testing, and maintaining scalable and robust applications in various platforms and languages. Able to effectively self-manage during independent projects, as well as collaborate as part of a productive team.

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## EDUCATION

Aug 2016 — May 2020

**Bachelor of Science in Computer Science, Minor: Mathematics,**  
**Virginia State University**

Petersburg, VA

GPA: 3.474 / 4.000

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## EMPLOYMENT HISTORY

Jan 2022 — Present

**Backend Engineer, IBM**

Durham

- Advanced from Band 6 to Band 7 Backend Engineer, reflecting enhanced technical proficiency, leadership abilities, and contributions to project outcomes.
- Spearheaded the successful development and delivery of a critical feature for our team's product, securing a lucrative \$3 million contract.
- Collaborated with multiple development squad leads in order to execute the design, development, and testing of efficient RESTful API routes using Scala and Go programming languages.
- Leveraged Docker to orchestrate and containerize multiple APIs resulting in faster build times and better scalability.
- Provided technical guidance and support in software development through leading the onboarding of new hires and interns.
- Identified and remediated dependency vulnerabilities to enhance security and ensure timely releases for IBM Edge Application Manager product
- Utilized strong interpersonal and communication skills as a key technical representative for IBM, collaborating with cross-functional teams and external clients to ensure customer satisfaction and drive revenue growth

Jul 2020 — Jan 2022

**Cloud and Cognitive Software Developer, IBM**

Durham

- Overhauled Site Planner's authentication method using Django and Python to integrate with Zen Authentication used by Cloudpak for Network Automation
- Introduced database-efficient user permission creation/update based on Zen roles and implemented middleware code to handle user verification and parsing for seamless authentication, while maintaining backwards compatibility with non-Zen authentication use cases.
- Improved efficiency of our team's Secure Device Onboard implementation by 50 percent through implementing new API routes and bash scripts to handle Owner Key pair attestation.
- Containerized multiple APIs using Docker to enable seamless deployment and scaling of services.
- Protected the timely release of our product by facilitating unit, integration, penetration, and end-to-end tests for multiple product components.
- Developed and delivered an engaging and informative presentation about my career path and my role within our team's product for a cohort of high school students in a technology internship program (P-Tech Program).
- Collaborated with program coordinators and other stakeholders to ensure the content was relevant, up-to-date, and aligned with industry standards and best practices.
- Managed all aspects of the presentation process, from scheduling and logistics to technical setup and troubleshooting, ensuring smooth and seamless delivery.

May 2018 — Aug 2018

**Hybrid Cloud Software Developer Intern, IBM**

Durham

- Improved the proficiency of live demo instances by developing a RESTful API to generate data.
  - Eliminated the need for 30 microservices which in turn reduced costs to run live demo environments by 75 percent per month
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## PROJECTS

Jul 2022 — Mar 2023

**Open Horizon**

- Contributed production quality code for multiple microservices as an official Repository Maintainer within the Open Horizon (open source) community and project
- IBM and Open Horizon community representative to the SDO/FDO Alliance and Intel
- Integrated Fido Device Onboard within Open Horizon and IBM Edge Application Manager to facilitate zero touch onboarding of a device to a respective management platform
- Automated deployment processes using Bash scripting, reducing deployment time by 70%

Oct 2020 — Jan 2021

## OmniBot

- Led a team in the development of "Omnibot," a Slack bot that automates custom answers to frequently asked questions in an SME's direct messages, increasing efficiency in coworker interactions
- Won the IBM Jumpstart Hackathon Judges Choice Award for Omnibot
- Collaborated with subject matter experts to identify common queries and design a conversational interface for Omnibot
- Developed the backend of Omnibot using Python and Flask and integrated it with Slack API
- Implemented natural language processing (NLP) algorithms to improve Omnibot's ability to understand user queries and provide accurate responses

Sep 2022 — Jan 2023

## Spreadly

- Contributed to the development of Spreadly, a crypto sports predictions market built on top of the Ergo platform
- Utilized Solidity to develop smart contracts and ensure secure transactions within the Spreadly ecosystem
- Leveraged Python and javascript to help build the backend of Spreadly, enabling seamless communication between front-end and smart contracts

Apr 2019 — Feb 2020

## Ping VSU

- A mobile application that informs Virginia State University (VSU) students about school alerts, events, and shuttle schedules. (POC)
- Utilized Xcode and Swift to build the mobile app and ensure seamless user experience.
- Reduced confusion among students by having a central location for all VSU information

2018

## N.A IBM Hackathon - IBM Cafe

- Developed a web application for IBM employees to order food, see cafeteria hours, and view monthly food calendar from their local IBM cafe
- Increases efficiency by eliminating wait times and helping keep cafe staff organized and prepared

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## SKILLS

Edge Computing

High Throughput and High Volume Systems

Container Orchestration

API Development

High Level Design

Low Level Design

Scala

Git

SQL

Linux/Unix

Adaptability

Microservices

Kubernetes

Agile Methodologies

Automated Testing

Database Management

Data Modeling

Build Management

Configuration Management

Python

Golang

Technical Writing

Swagger Documentation

HTTPS/TLS

API Keys

User Management Systems

Authentication and Authorization Systems

IoT Constellations

Development Team Leadership

Distributed Systems

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## LINKS

Github

<https://github.com/lorenzoking>