Elie Nomwende Bambara

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Objective

Computer Science graduate seeking an entry-level software/systems engineering position at Boeing to apply software, systems, and infrastructure experience gained through rigorous coursework, senior design, and industry internship projects. Focused on developing secure, reliable, and scalable engineering solutions for aerospace and defense applications.

Education

Prairie View A&M University, Prairie View, TX (**ABET-accredited program**)   Expected Graduation: Spring 2026
Bachelor of Science in Computer Science   GPA 3.36
Relevant Courses: **Operating Systems**, Database Management, Analysis of Algorithms, **Software Engineering**, Web Design & Multimedia, Data Structures & Algorithms, Introduction to Data Science, **Parallel Computing**.

Houston Community College, Houston, TX   Graduated 2021
Associate of Science, **Civil Engineering**   GPA 3.5

Professional Experience

Amazon Web Services, Inc.   Dallas, TX
Cloud Support Associate Intern   May 2025 - August 2025
- Designed and implemented a serverless event-driven metadata extraction system that processed S3 uploads at scale, **supporting hundreds of files per day and reducing end-to-end metadata processing latency by over 90%**.
- Resolved complex issues involving IAM, EC2 networking, S3 replication, and EBS mounting to **restore system functionality and maintain secure operations**.
- Built and tested networking solutions using EC2, VPC, ALB, Auto Scaling, and RDS to **validate connectivity, scalability, and high-availability configurations**.

Towne Park Ltd   Houston, TX
Associate Manager   August 2022 - March 2023
- Managed **35+ associates** in high-demand hospitality settings, **maintaining operational standards** during peak service periods.
- Led onboarding, scheduling, and retention strategies, **supporting consistent staffing levels across 35+ associates**.

Leadership Experience

Towne Park Ltd
Associate Manager
- Acquired leadership skills through Team management (35+ associates), Problem solving, Decisions making, Conflicts resolution.

Skills

- **Security & Compliance:** IAM, NIST 800-53, Cloud Guard, Guardrails, Auto-remediation workflows
- **Programming & Automation:** Python, C++, Java, SQL, PL/SQL, Shell scripting, Oracle CLI/SDK
- **Cloud & Infrastructure:** Oracle Cloud Infrastructure (OCI), AWS (S3, EC2, IAM, VPC, RDS, DynamoDB, Lambda, EventBridge), Terraform, Ansible, CI/CD
- **Databases:** MySQL, MongoDB, DynamoDB
- **Tools & Systems:** Git, Docker, VS Code, Replit, Linux (Ubuntu, Red Hat), Windows, macOS

Projects

- **Senior Design Project** – Software Bill of Materials (SBOM) Attestation   Lockheed Martin Corp. Partnered
  Generated SBOM outputs aligned with NTIA minimum elements, improving component transparency and supporting secure software supply chain requirements.

- **OCI Landing Zone Automation**   Oracle Corp. Partnered
  Secure OCI landing zone with Cloud Guard, Logging, and IAM; automated provisioning with Terraform, Ansible, and OCI CLI.

- **TicketWave (Event Ticket Management System)**   Database course project
  Role-based C++/PHP/MySQL system for ticket booking and reporting with frontend/backend integration.

- **Process Scheduling Simulator**   Operating System course project
  Implemented Round Robin, MLFQ, and EDF algorithms in C++ with multithreading to analyze CPU utilization.

Certification

AWS Certified Solutions Architect – Associate
CompTIA Security[+]