JOEL BROWN

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EDUCATION

Eurecom — Sophia-Antipolis, France
MS Computer Networks and Telecommunication (IoT) — Sep 2024 - Aug 2026

University of the West Indies (UWI) — Kingston, Jamaica
BSc Electrical Engineering *GPA: 3.73 / 4.0 (First Class Honours)* — Sep 2017 - Jun 2020

EXPERIENCE

Digicel — Kingston, Jamaica
Network Engineer — Jul 2022 - Aug 2024

- Architected and deployed Network Management System (NMS) across 25 Caribbean markets for major telecommunications provider, delivering 30% improvement in incident detection time through automated monitoring and proactive network optimization.
- Managed Azure cloud infrastructure and Linux-based systems achieving 99.9% uptime, demonstrating expertise across diverse technology stacks and ability to work independently on mission-critical projects.
- Engineered automation solutions using Python, Perl, and PHP that processed 1M+ network events daily, enabling real-time system health visibility and data-driven infrastructure optimization decisions

Digicel — Kingston, Jamaica
GNOC Engineer — Aug 2021 - Jul 2022

- Monitored and optimized real-time network health across Caribbean mobile infrastructure, collaborating with distributed teams to ensure continuous service availability for telecommunications operations.

Academie de Nantes — Angers, France
Assistant de Langue — Oct 2020 - May 2021

- Taught English to primary school students (CP to CM2), designing engaging lesson plans that catered to different learning levels and abilities, demonstrating strong communication and adaptability skills.

SKILLS

Programming Languages:	Python, C, C++, Go, JavaScript, Bash, PHP, Perl
Telecommunications & Networks:	IoT Systems, 5G/4G, Computer Architecture (RISC-V)
DevOps & Automation:	Embedded Systems (ATmega32, SPI, I2C), Docker, Git, CI/CD pipelines
Cloud & Infrastructure:	Microsoft Azure, GCP, Linux System Administration
Software Frameworks:	React, Flutter, FastAPI, Flask, Django, Laravel
Databases:	PostgreSQL, MySQL
Languages:	English (Native), French (C1)

PROJECTS

NetSim5G - 5G Core Network Simulator *Go, React, 5G Networks*
Designed and implemented comprehensive 5G core network simulator modeling AMF, SMF, UPF, and UDM functions with real-time packet flow visualization. Demonstrates deep understanding of telecommunications architecture and ability to deliver complex technical solutions independently.

Eye Tracking AAC System *C, Python, Embedded Systems* — https://github.com/RizPur/EyeTracker/
Developed embedded communication system using ATmega32 microcontroller with SPI/I2C protocols and computer vision integration. Created real-time assistive technology enabling users with motor disabilities to communicate through eye movements, showcasing versatility across hardware and software domains.

Somnia - AI Dream Journaling App (Live on Google Play) *Flutter, PostgreSQL, OpenAI API*
Full-stack mobile application deployed to production with AI backend integration. Managed complete product lifecycle from design through deployment, demonstrating end-to-end project ownership

Caribbean Supply-Chain Tracker *React, Laravel, MySQL*
Built full-stack logistics tracking platform for the Caribbean with real-time data visualization. Delivered complete solution addressing Digicel's requirements in telecoms supply chain management.

AWARDS

JAIA Hackathon 2023 Winner — Jamaica Artificial Intelligence Association / UWI
1st place for AI-powered gunshot detection system with real-time classification and geospatial mapping. Demonstrated ability to rapidly prototype innovative technical solutions under pressure and deliver results in competitive environments. — Sep 2023