

# Ezra Minty

Berbice, Guyana | ezranminty@gmail.com | [592]-744-5536 | [Ezra Minty | LinkedIn](#) | [GitHub: Ezra Minty](#)

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## PROFESSIONAL PROFILE

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Innovative and driven Computer Science student with a proven record in full-stack development, civic technology projects, and hackathons. Skilled at designing scalable systems and public-facing platforms that merge technical precision with user-focused design. Beyond technology, demonstrated leadership and policy insight as Shadow Minister of Education in the Youth Parliament of Guyana, contributing to national-level debates on governance and development. Passionate about leveraging technology and civic engagement to create solutions that empower communities and shape inclusive digital transformation.

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## SKILLS

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**LANGUAGES** | Python, C, Java, JavaScript, PHP, SQL

**WEB DEVELOPMENT** | Next.js, React.js, Node.js, Express.js, Tailwind CSS, Bootstrap

**DATABASE** | MySQL, MongoDB, MongoDB Atlas, SQLite

**TOOLS AND PLATFORMS** | Git, GitHub, Docker, Linux, Virtual Machines

**MISCELLANEOUS** | Networking, Arduino, Raspberry Pi, CAD

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## EDUCATION

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**Tertiary - The University of Guyana | Field: *Computer Science* | Expected Graduation Year: 2027**

- **Current GPA:** 3.8 / 4.0
- **Relevant Coursework:**
  - Software Engineering (A)
  - Data Systems Design & Information Management Systems (A)
  - Computer Networks and Data Communications (A)
  - Computer and Information Security Fundamentals (A)

- **Relevant Coursework:**

- User Experience Design (A+)
- Full Stack Development (A+)
- Python Programming (A+)
- Design for Mobile Devices (A)

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## **PROJECTS**

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### **Legal Database Application (Subscription-Based)**

- Enabled legal professionals to access a structured repository of case files by developing and deploying a MERN stack web application with integrated Stripe payments and role-based JWT authentication, which streamlined access to a wide range of legal cases with advanced search and filtering across complex metadata, improving research efficiency and monetization capability.

### **FinanceGY – Python Library for the Guyana Stock Exchange**

- Developed an unofficial open-source Python library for accessing and analyzing financial data from the Guyana Stock Exchange (GSE). Implemented a modular API system enabling programmatic retrieval of securities, trade sessions, and historical market data. Integrated an intelligent caching mechanism and data export utilities (CSV/Excel) to enhance performance and usability, reducing average data retrieval time from 9.4 seconds to under 3 seconds after the first request.

### **Health Center Database Management System**

- Achieved secure and efficient health center operations by designing and implementing a full-stack database system using React.js, Express.js, Node.js, MySQL, and Docker, which enabled role-based access, appointment scheduling, and real-time staff/patient data management, reducing administrative overhead and ensuring data integrity through validation and optimized queries.

### **MintFlow - Flashcard Learning Platform**

- Improved academic preparation for university students by building and deploying MintFlow, an interactive flashcard platform using the MERN stack and Docker, which delivered a responsive user experience with subject-based deck selection and optimized backend performance, leading to increased study engagement among UG students.

## **NGSA Dataset - Data Collection and Platform Development**

- Designed and implemented a MongoDB-based data collection and analysis system for National Grade Six Assessment (NGSA) past papers, focusing on Paper 1 Math and English. Built backend structures for storing and organizing test and question datasets, enabling efficient retrieval and structured querying. Integrated the system into an interactive practice exam platform built with Next.js, Tailwind CSS, Node.js, and MongoDB, designed for scalability to support additional subjects and exam levels.

## **NGSA Dataset Exploratory Data Analysis**

- Conducted exploratory data analysis (EDA) on 400+ NGSA English exam questions using Python, pandas, and Jupyter Notebook. Created data visualizations to highlight trends in topic emphasis, showing that Comprehension, Grammar, and Vocabulary consistently dominate exam design. Analyzed answer choice distributions, revealing a balanced spread across A–D options, countering assumptions of answer bias. Generated insights to guide curriculum alignment, exam preparation strategies, and future predictive modeling.

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## **EXPERIENCE**

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### **Data Analyst | Mike's Tech Solutions**

- Automated collection and classification of business data (text and media) to improve workflow speed.
- Built structured storage pipelines using scripts, reducing manual processing by over 60%.

### **Robotics Engineer | Team Guyana Robotics (2022)**

- Helped design and deploy a CubeSat for real-world meteorological data capture.
- Helped build and program an autonomous drivetrain system for terrain testing.

### **Programming and Robotics Mentor | Ministry of Culture, Youth and Sports**

- Taught robotics and programming fundamentals to students through a three-weekend mentorship initiative.
- Led hands-on sessions covering coding logic, hardware control, and teamwork in problem-solving.

### **Programming Trainer | Industry of Innovation Unit, Office of the Prime Minister**

- Conducted a structured training session on basic programming concepts for youth participants in a government-led tech initiative.
- Simplified complex topics like variables, loops, and conditionals into beginner-friendly lessons.

## **Finalist (4<sup>th</sup> Place) | OAS Cyber Challenge Guyana 2025**

- Competed in the OAS Cybersecurity Challenge, a regional cybersecurity exercise organized by the Organization of American States (OAS), Hackrocks, and the National Data Management Authority. Ranked 4th overall with 175 points, demonstrating strong analytical and problem-solving abilities in areas such as cryptography, digital forensics, network sniffing, and phishing defense. Strengthened technical proficiency in ethical hacking and digital investigation through hands-on simulation and CTF-style challenges.

## **Participant | Technology Concept Sprint - Industry of Innovation Unit, Office of the Prime Minister (2025)**

- Pitched SafeSpace, a mental health and wellness app designed to provide teenagers with confidential, affordable support by connecting them to certified therapists and peer supporters, highlighting its innovative features and potential social impact to a national panel.

## **Participant | Innovation Challenge 2025 - Health, Safety, Security, and Environment (HSSE)**

- Helped develop a digital HSSE reporting platform enabling users to anonymously submit safety incidents, featuring real-time monitoring dashboards and streamlined response workflows for organizations. Integrated AI-powered news agency monitoring and analysis to enhance incident detection and prioritization. Built with a modern tech stack including React.js, Node.js, Express.js, and MongoDB for scalability and performance.

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## **LEADERSHIP AND PUBLIC ENGAGEMENT**

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### **Speaker's Regional & National Youth Debating Competitions**

- Competed at the regional and national levels in competitive debating, focusing on topics related to governance, development, and technology. Took leadership in research and speech drafting, specializing in evidence-based argumentation. Mentored younger debaters and contributed to team strategy and rebuttal framing.

### **Youth Parliament of Guyana - Shadow Minister of Education (2025)**

- Appointed to represent national youth perspectives on education policy in the annual sitting of the Youth Parliament. Delivered a parliamentary speech on Comprehensive Adolescent Health and Development Education in Secondary Schools, highlighting the importance of strengthening HFLE while addressing national challenges. Conducted policy research, drafted position papers, and collaborated with parliamentary peers on motion analysis.

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## CERTIFICATIONS

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- **Certificate of Excellence in Programming - STEM Guyana**
  - Demonstrated proficiency in coding, problem solving, research, ideation, engineering, communication, and teamwork.
- **Certificate of Completion - Advanced Robotics Training - Ministry of Culture, Youth and Sports**
  - Awarded for the completion of the Advanced Robotics Training Course
- **Certificate of Completion - Guyana Coders Initiative**
  - Awarded for the completion of the Data Science Fundamentals course.

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## REFERENCE

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### **Jackie Ralph**

- Former Head Teacher of Queen's College
  - Phone: [592]-604-3186

### **Shamar J. Sukhu**

- Senior Legal Officer
- Christopher Ram & Associates Attorneys at Law
  - Phone: [592]-711-2089