Olivia Bennett

oliviabennett.dev | olivia.bennett@example.com | (202) 654-9871 | github.com/oliviabennett | linkedin.com/in/oliviabennett

EDUCATION

George Washington University — Aug. 2018 – May 2022
Bachelor of Science in Computer Science — *Washington, DC*
- **Relevant Coursework**: Data Structures, Machine Learning, Cloud Computing, Network Security
- **GPA**: 3.85/4.00
- **Activities**: GW Cybersecurity Club (President), ACM Student Chapter, HackGW Organizer

Johns Hopkins University — Aug. 2022 – Present
Master of Science in Computer Science — *Baltimore, MD*
- **Research Focus**: Artificial Intelligence and Secure Systems
- **Activities**: Research Assistant at Malone Center for Engineering in Healthcare

EXPERIENCE

Software Engineering Intern — Jun. 2021 – Aug. 2021
Booz Allen Hamilton — *Arlington, VA*
- Developed a cloud-based logging system to monitor **1M+ daily transactions**, enhancing visibility and security.
- Created data pipelines using Apache Kafka and Spark, reducing latency by **25%**.
- Implemented automated testing frameworks, improving software reliability by **30%**.
- Collaborated with cross-functional teams to migrate legacy systems to a scalable microservices architecture.

Research Assistant — Sep. 2020 – May 2022
George Washington University, CS Department — *Washington, DC*
- Researched secure authentication protocols for IoT devices, developing a lightweight encryption framework.
- Published findings in the **2021 International Journal of Computer Security**.
- Designed a simulation environment for testing security vulnerabilities in IoT networks.
- Mentored undergraduate students, fostering interest in cybersecurity research.

PROJECTS

MedSecure Platform — *React, Flask, PostgreSQL, AES Encryption*
Jan. 2022 – Mar. 2022
- Developed a secure platform for managing patient health records, ensuring HIPAA compliance.
- Implemented role-based access control and end-to-end encryption, enhancing data security.
- Designed a user-friendly interface with React, improving user engagement by **40%**.
- Deployed on AWS, achieving **99.8% uptime** for **5,000+ users**.

EcoTrack Web App — *Django, MongoDB, Chart.js*
Jun. 2021 – Aug. 2021
- Built a web application to visualize carbon emissions data and provide actionable insights.
- Designed interactive charts using Chart.js to display trends and patterns in real time.
- Integrated MongoDB to handle **2TB+ of data**, ensuring seamless querying and updates.
- Received **4.9/5 user ratings** during beta testing for usability and accuracy.

SmartTraffic Control System — *Python, Raspberry Pi, TensorFlow*
May 2020 – Jul. 2020
- Developed an AI-driven system to optimize traffic light scheduling, reducing congestion by **30%**.
- Trained TensorFlow models on live traffic camera feeds for real-time vehicle detection.
- Implemented the solution on Raspberry Pi devices, enabling cost-effective deployment in test cities.
- Collaborated with city officials to pilot the system, receiving **positive feedback** on scalability.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, SQL, Bash, C++

Frameworks: React, Flask, Django, TensorFlow, PyTorch, Spark

Tools: AWS, Docker, Kubernetes, Git, Jenkins, Apache Kafka

Technologies: Cybersecurity, Cloud Computing, Data Visualization, IoT Systems