Olivia Martinez

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EDUCATION

Carnegie Mellon University   Aug. 2017 – May 2021
Bachelor of Science in Computer Science   *Pittsburgh, PA*
- **Relevant Coursework**: Computational Biology, Advanced Algorithms, Software Engineering, Cloud Computing
- **GPA**: 3.94/4.00
- **Activities**: Women in Tech Society (Vice President), TartanHacks Organizer, CMU AI Club

EXPERIENCE

Software Engineer Intern   Jun. 2020 – Aug. 2020
NovaTech Systems   *Seattle, WA*
- Developed a high-performance REST API backend with Node.js and PostgreSQL, reducing query latency by **40%** and supporting **1M+ API calls daily**.
- Implemented a robust caching mechanism using Redis, improving response times by **50%** for frequently accessed data.
- Optimized database indexing and query execution plans, leading to a **30% reduction in database load**.
- Collaborated with the front-end team to integrate APIs, enabling seamless interactions for **500,000+ active users**.

Research Assistant   Jan. 2019 – Dec. 2019
CMU Human-Computer Interaction Institute (HCII)   *Pittsburgh, PA*
- Designed and conducted usability tests for a wearable device aimed at enhancing accessibility for visually impaired users.
- Developed a data analysis pipeline in Python to process and visualize user interaction metrics, reducing analysis time by **20 hours per week**.
- Published a peer-reviewed paper at the ACM CHI 2020 conference on the usability and effectiveness of the device.
- Collaborated with a multidisciplinary team of designers, engineers, and psychologists to iteratively refine the prototype.

PROJECTS

CodeSync   *React, Node.js, Firebase*
Oct. 2020 – Dec. 2020
- Built a collaborative code-sharing platform for developers to work on projects in real time, featuring live editing and version control.
- Integrated WebSocket technology to enable real-time updates with **sub-100ms latency**.
- Deployed Firebase Authentication for secure user logins and role-based access management.
- Achieved **4,000+ active users** within three months of deployment through effective marketing and community engagement.

MedPredict   *Python, TensorFlow, Flask, AWS*
Mar. 2020 – May 2020
- Developed a machine learning model to predict patient readmissions based on electronic health records, achieving **85% accuracy**.
- Built a Flask API to expose prediction services and integrated with hospital management systems for seamless operation.
- Implemented secure data handling practices compliant with HIPAA regulations, ensuring patient confidentiality.
- Deployed the system on AWS EC2, enabling real-time predictions for **50+ hospitals**.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C++, SQL, Ruby, R

Frameworks: React, Flask, TensorFlow, Node.js, Django, Kubernetes

Tools: Git, Docker, PostgreSQL, Firebase, AWS, Redis, Elasticsearch

Technologies: IoT, Machine Learning, Cloud Computing, Human-Computer Interaction