Emily Carter

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EDUCATION

University of Washington — Seattle, WA
Bachelor of Science in Computer Science — Sep 2024 – Jun 2028
Relevant Coursework: Data Structures, Algorithms, Machine Learning, Distributed Systems, Cybersecurity, Software Engineering
GPA: 3.78/4.0

TECHNICAL SKILLS

Languages and Technologies: Python, C++, Java, JavaScript, SQL, Go, TensorFlow, PyTorch
Tools and Frameworks: Git, Docker, Kubernetes, AWS, Azure, React, Node.js

PROJECTS

Autonomous Drone Navigation System | *Python, OpenCV, ROS*
- Developed an autonomous drone navigation system using computer vision and reinforcement learning
- Implemented obstacle detection and avoidance algorithms with 90% accuracy in real-time environments
- Integrated with ROS (Robot Operating System) for seamless communication between drone components

Blockchain-Based Voting System | *Solidity, Ethereum, React*
- Designed and deployed a decentralized voting system using blockchain technology
- Implemented smart contracts for secure and transparent vote tallying
- Developed a user-friendly front-end interface for voting using React and Web3.js

AI-Powered Resume Builder | *JavaScript, Node.js, GPT-3*
- Created an AI-driven resume builder that generates tailored resumes based on user input
- Integrated OpenAI's GPT-3 for natural language processing and content generation
- Deployed the application using AWS Lambda and S3 for scalable cloud hosting

RESEARCH EXPERIENCE

Research Assistant - AI Ethics Lab — Mar 2027 – Jun 2027
University of Washington — *Seattle, WA*
- Investigated ethical implications of AI in decision-making systems
- Developed fairness metrics for evaluating bias in machine learning models
- Published findings in a conference on AI ethics and societal impact

WORK EXPERIENCE

Software Engineering Intern — Jun 2028 – Aug 2028
Microsoft — *Redmond, WA*
- Contributed to the development of Azure AI services, improving model deployment efficiency by 20%
- Collaborated with cross-functional teams to design and implement scalable cloud solutions
- Optimized backend APIs, reducing latency by 15%

Data Analyst Intern — May 2027 – Aug 2027
Amazon — *Seattle, WA*
- Analyzed large-scale customer behavior data to identify trends and insights
- Developed predictive models for customer churn with 85% accuracy
- Automated data cleaning and preprocessing workflows using Python and SQL