Jessica Harper

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Education

Massachusetts Institute of Technology Sep. 2018 – Jun. 2022
Bachelor of Science in Computer Science and Engineering *Cambridge, MA*

- **Relevant Coursework**: Distributed Systems, Machine Learning, Computer Vision, Algorithms
- **GPA**: 4.0/4.0
- **Activities**: ACM Programming Team, TechX Hackathon Organizer, Women in STEM Initiative

Experience

Software Engineer Intern Jun. 2021 – Aug. 2021
QuantumTech Solutions *San Francisco, CA*

- Designed and implemented a scalable cloud-based API gateway, reducing latency by 35%.
- Developed a microservices architecture for data processing, increasing system throughput by 50%.
- Collaborated with cross-functional teams to deploy containerized applications using Docker and Kubernetes.

Research Assistant Jan. 2020 – Dec. 2020
MIT Computer Science and Artificial Intelligence Lab (CSAIL) *Cambridge, MA*

- Worked on an NLP project analyzing social media sentiment using transformer-based models.
- Authored a paper accepted at the 2021 Association for Computational Linguistics (ACL) Conference.
- Developed a pipeline to preprocess 1TB of text data, achieving a 20% reduction in runtime.

Projects

SmartHome AI *Python, TensorFlow, Raspberry Pi, Flask*
Apr. 2022

- Developed a voice-activated home automation system integrating IoT devices with AI-powered commands.
- Implemented real-time speech-to-text conversion with 98% accuracy using TensorFlow.
- Deployed a web-based control interface with Flask, managing over 500 concurrent connections.

EcoTrack *React, Node.js, MongoDB, AWS*
Sep. 2021

- Built a platform to help users track and reduce their carbon footprint through personalized recommendations.
- Integrated AWS Lambda for serverless computing, improving scalability by 70%.
- Led a team of 5 developers to deliver the product within 3 months, garnering 1,000 active users post-launch.

PathFinder AI *Python, TensorFlow, Flask*
Mar. 2021

- Created an AI-powered tool for finding optimal travel routes based on user preferences.
- Integrated map data APIs to dynamically update routes in real-time.
- Achieved a 95% satisfaction rate in beta testing with over 500 users.

GreenMetrics *JavaScript, Node.js, MongoDB*
Jan. 2021

- Developed a carbon footprint calculator for businesses, helping them track and reduce emissions.
- Designed an intuitive dashboard to visualize emission trends and suggestions for improvement.

Technical Skills

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

Frameworks: React, Django, Flask, TensorFlow, PyTorch, Kubernetes, Next.js

Tools: Git, Docker, Jenkins, AWS, GCP, Firebase, Elasticsearch, Postman