

Charlie Parker

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SKILLS

Languages: Python, JavaScript, C, C++, HTML/CSS, JSON

Frameworks and Tools: Git, Linux, UNIX, GitHub, GitLab, PyTorch, MSYS2, PuTTY, VS Code, OpenCV, OpenAI API, Google API, REST API, Azure

PROJECTS

AI Consulting Project | *Azure, AWS, JSON, JavaScript, GraphQL API, Cytoscape.js, Kubernetes* July. 2025

- Led a 6-member AI consulting team as project manager for the startup **Story City**, coordinating project timelines, deliverables, and communication using agile methodologies and collaboration tools.
- Delivered a strategic AI integration report with actionable recommendations that aligned with Story City's values, business objectives, and existing technical infrastructure.
- Researched AI tools and cloud services to assess feasibility and technical requirements of proposed features, enabling the team to deliver evidence-based recommendations grounded in current platforms and trends.
- Translated relational chapter data from a GraphQL API into graph structures using Cytoscape.js, enabling intuitive visual mapping of nonlinear story paths for creators.
- Evaluated Google Maps API and location-based data sources to estimate real-time travel durations, supporting a proposed feature for personalized story time predictions based on user transport modes.
- Achieved Microsoft Azure Fundamentals and Azure AI certifications through self-directed study and hands-on labs, demonstrating a strong foundational understanding of cloud computing and AI services relevant to real-world client solutions.

AI Voice Assistant | *Python, OpenAI API, AI Speech Recognition, TTS/SST, JSON, Git* Nov. 2024

- Developed an interactive AI voice assistant utilizing OpenAI's GPT API to dynamically generate context-aware responses.
- Integrated Google Speech Recognition API and text-to-speech functionalities to facilitate natural language voice interactions, enhancing accessibility and user engagement.
- Implemented efficient JSON parsing techniques to handle and manage conversation data, ensuring optimal response speed and accuracy.
- Designed an intuitive graphical user interface (GUI) using Tkinter, providing seamless real-time interaction and user-friendly navigation.

AI Cats vs Dog Classifier | *PyTorch, Python, OpenCV, Real-Time AI Video Recognition* Apr. 2025

- Developed an image classification system using PyTorch, achieving high accuracy in distinguishing between cats and dogs using a custom Convolutional Neural Network (CNN)
- Enhanced model performance and generalization through data augmentation techniques such as flipping, rotation, and random cropping
- Integrated OpenCV for real-time webcam inference, with dynamic confidence bar overlay for visual feedback
- Published code to GitHub with clean structure, README, and .gitignore for public collaboration

EXPERIENCE

Online Data Analyst - AI Team May. 2025 - Aug. 2025

Telus International

Remote

- Reviewed and evaluated search engine query results to assess relevance, accuracy, and user intent alignment, contributing to the refinement of NLP models and ranking algorithms.
- Assessed image data for content quality, relevance, and labelling accuracy to support computer vision model training and validation.
- Listened to audio clips and AI-generated voice samples to evaluate clarity, tone, naturalness, and alignment with human-like speech expectations.
- Maintained high accuracy and throughput in a fast-paced, remote environment, meeting strict performance and quality standards.

EDUCATION

University of Waterloo

Bachelor of Software Engineering, Specialization in Artificial Intelligence

Waterloo, ON

Sept. 2024 – May 2029