Carly Jazwin

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Education

Arizona State University, Barrett Honors — Tempe,
Bachelor of Science in Computer Science — *Aug. 2022 – May 2026*
GPA: 3.90/4.00

Experience

Software Engineer Intern — June 2025 – Present
Performance Software Co. — *Phoenix, AZ*

- Delivered CRM MVP with React/Next.js, Node.js, PostgreSQL; integrated Apple LiDAR for 3D spatial capture.
- Contributed 500+ lines of C code in a large avionics system (Northrop Grumman contract).
- Achieved an 81% reduction in static analysis errors by remediating MISRA C violations.
- Built a Python tool to generate SRS/SDD docs from codebases, reducing authoring time by 60%+

Undergraduate Research Assistant — Imaging Lab — Aug 2024 – Jun 2025
Arizona State University — *Tempe, AZ*

- Wrote 500+ lines of Python/ML code, modifying Restormer/DATUM pipelines for turbulence-degraded image restoration.
- Integrated CLIP-guided loss functions from Hugging Face, improving robustness across variable imaging conditions
- Processed 2TB+ of imagery on GPU clusters, benchmarking results with SSIM/PSNR.
- Curated and cleaned custom datasets; fine-tuned models to improve robustness across conditions.

NSF IRES Research Fellow — May 2024 – July 2024
BioDesign Europe, Dublin City University — *Dublin, IRE*

- Authored 1,000+ lines of Python/ML code, building CNN and LSTM pipelines for time-series prediction of 3D bioprinted scaffold degradation.
- Engineered data preprocessing and modeling workflows, improving prediction accuracy for scaffold longevity.
- Collaborated with biomedical engineering faculty to integrate ML models into experimental workflows.
- Published technical findings in papers and delivered presentations to international audiences.

Projects

Automated Customer Feedback SaaS (Capstone) | *React, Node.js, PostgreSQL* — Aug 2025 – May 2026

- Developing a QR/URL-driven feedback routing platform that captures customer reviews and dynamically manages rewards.
- Implemented multi-tenant architecture with role-based access control to support multiple businesses securely.
- Built conditional workflows to escalate low-star reviews to managers while streamlining high-star reviews to social media.

Insurance Cost Explorer (Honors Thesis) | *PyTorch, FastAPI, React* — Aug 2024 – May 2025

- Engineered an interactive ML-powered web tool to predict medical insurance charges with real-time user inputs.
- Integrated feature attribution and what-if analysis, improving explainability and fairness across demographic groups.
- Designed full-stack pipeline with PyTorch backend and React/FastAPI frontend, supporting transparent model communication.

Technical Skills

Languages: Python, C/C++, JavaScript/TypeScript, Java, SQL (PostgreSQL)
Machine Learning: PyTorch, TensorFlow, Hugging Face
Web & App Development: React, Next.js, Node.js, Flask, FastAPI, Electron, SwiftUI
Systems & Tools: Linux, Bash, CUDA, Git, Docker, GitLab CI/CD, VS Code, IntelliJ, PyCharm