

CHRISTOPHER PUGLIESE

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PROFESSIONAL SUMMARY

U.S. Air Force veteran and recent Computer Science graduate with hands-on experience designing and building scalable, fault-tolerant web and mobile applications. Skilled in Java, Python, C, and Kotlin with strong foundations in object-oriented design, distributed systems, and database architecture. Proven ability to collaborate across disciplines and deliver high-quality software solutions using agile methodologies. Passionate about cloud innovation and building software that thrives at immense scale, with a drive to contribute to Amazon's mission of delivering reliable and secure cloud infrastructure.

EDUCATION

Metropolitan State University Denver
Bachelor of Computer Science

EXPERIENCE

United States Air Force
Instructor Aircraft Loadmaster

Little Rock, AR
Aug 2015 - 2021

- Led mission planning and execution in distributed, high-pressure environments with a strong emphasis on precision, safety, and fault tolerance under stress.
- Trained and evaluated cross-functional team members, enforcing operational safety protocols and reducing loadmaster operation mishaps by 10%.
- Conducted multinational training missions requiring collaboration, situational awareness, and adaptive problem-solving in agile environments.
- Adept at working in high-stress, time-sensitive scenarios with a strong focus on precision, safety, and efficiency.
- Performed mission planning, weight and balance calculations, and cargo restraint in compliance with FAA, DoD, USAF regulations, Technical Orders, and Publications.
- Led multi-national training exercises and operational deployments, supporting joint and coalition forces.
- 1200 total flying hours on the C-130J.
- Served as an on-the-job training (OJT) mentor for junior airmen, providing guidance on airdrop procedures, aircraft systems, and mission execution.

SampleShare - Full Stack Web App for Music Producers
Student Developer (github.com/SampleShare/SampleShare)

Denver, CO
Aug 2024 - Jan 2025

- Built and maintained a scalable, cloud-ready web platform using Django, Docker, and PostgreSQL for music producers to manage and share audio samples.
- Extended Django's user model to support secure, distributed access to personalized user content with a modular architecture using class-based views and templates.
- Built and integrated a UserProfile model extending Django's default user system to allow for personalized content and sample management.
- Managed database schema with Dockerized PostgreSQL and implemented views using Django class-based views and templates.
- Collaborated in an Agile development team, participating in code reviews, sprint planning, and continuous integration using Git and GitHub.
- Focused on usability, secure file handling, and scalable architecture for long-term community growth.

Weatherfy - Android App for Weather-Based Music Recs
Student Developer

Denver, CO
May 2024 - July 2025

- Developed a Kotlin-based Android app that consumes remote APIs (weather and music) using Retrofit and Moshi to deliver real-time, adaptive music suggestions.
- Engineered modular components and navigation with Jetpack libraries, supporting device scalability with sw600dp layouts and state-aware UI rendering.
- Built an in-app music player and genre recommendation engine, simulating prediction-like behavior based on environmental inputs.

Relational & NoSQL Database Development Projects
Coursework & Independent Projects

Denver, CO
2023 - 2024

- Designed and optimized PostgreSQL schemas for distributed querying in domains including university systems, population analytics, and IMDB datasets, using JOIN, GROUP BY, and indexes.
- Executed cloud-ready data operations using MongoDB with unstructured datasets, implementing efficient CRUD operations, nested queries, and MapReduce pipelines.
- Deployed and tested Dockerized databases to simulate real-world database environments and ensure reliability, scalability, and easy manageability.

SKILLS

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|--------------------------|------------------------------------|--|
| • Project Management | • Algorithms | • Software Development Lifecycle |
| • Python | • Complexity Analysis | • Problem-Solving |
| • Java | • Software Development Life Cycle | • Critical Thinking |
| • C | • Agile Development | • Team Collaboration |
| • Kotlin | • Microsoft Office Tools | • Time Management |
| • HTML | • PC | • Adaptability |
| • CSS | • Mac | • Technical Instruction & Training Development |
| • JavaScript | • Ableton | • Operational Risk Management (ORM) |
| • Google APIs | • Google Colab | • Mission-Critical Decision Making |
| • flask | • Cross-functional Collaboration | • SOP Development & Enforcement |
| • SQLAlchemy | • Stakeholder Management | • Cross-Functional Team Leadership |
| • MongoDB | • Data Collection | • Process Optimization |
| • MySQL | • Risk Management | • Strategic Planning |
| • PostgreSQL | • Communication Skills | • Performance Evaluation & Coaching |
| • Docker | • Analytical Skills | • Conflict Resolution |
| • Django | • Diversity, Equity, and Inclusion | • Situational Awareness |
| • TensorFlow | • SQL/Database Querying | • Global Collaboration & Cultural Competence |
| • Tableau | • Computer Science and Programming | |
| • Jupyter | • Executive Presentations | |
| • GitHub | • Google Workspace | |
| • Retrofit | | |
| • Moshi | | |
| • J3 | | |
| • Object-Oriented Design | | |
| • Data Structures | | |

CERTIFICATIONS AND EXTRA CREDENTIALS

- GitHub Portfolio / Projects
- Airman of the Quarter, July-September 2017
- Aerial Achievement Medal, 2018

- Air Force Achievement Medal, 2019
- United States Air Medal, 2020
- Joint Airdrop Inspection 2018
- C-130J Loadmaster Instructor, 2019