



Ash Black

TECHNOLOGY. INNOVATION. EDUCATION.

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PLATFORMS & SKILLS

AI: MCP, APIs, Agents, RAG, GPT personality transfer and restore

XR: UE5, A-Frame, NeRFs, Gaussian Splats, Stereoscopic VR, Omniverse, WebXR

DATA: SQL Server, ETL, data modeling, T-SQL, Turing complete, geospatial and temporal databases

WORKFORCE: Discord, OBS, live video for education, 10+ years remote team management

CREATIVE: Websites, GenAI Image/Video, Adobe, Reaper, strong creative writing and copy

WEB: .NET, Visual Studio, HTML5/CSS/JS, C#

MAPPING: KML, Google Maps/Earth, MapBox, Geofencing

Holistic understanding of data, data modeling, and databases including relational, multi-dimensional, and columnar designs. Strong set-based reasoning and ability to physically engineer SQL Server.

Social science training with appreciation for interpreting human behavior through data models. Specialist knowledge of archaeological systems.

Demonstrable ability to lead, inspire, and build culturally and technologically diverse high-performance teams and online communities.

Strong technical writing and presentation skills with ability to present complex concepts to diverse audiences. Strategic white boarding and application architectures.

Excellent audio production skills.

Highly creative **technologist** and **experiential educator** with advanced AI, XR, Web, Data skills and unique ability to lead talent seeks *Chief Technology Officer* role guiding innovation, workforce development and emerging technologies in organizational adaptation to AI.

- **Founder** of multiple **workforce development** programs fostering full stack skills for graduate/undergraduate coders, creatives, and entrepreneurs while expanding institutional research capabilities in Web, data science, emerging tech, and AI. (<https://aicore.arizona.edu>).
- **Lecturer** of entrepreneurship with ample international, start-up, and consulting experience specializing in motivational teaching, and **digital prototyping**.
- **Programmer** and specialist in rapid prototyping with advanced knowledge in Web (HTML5/CSS/JavaScript/.Net), Data (SQL Server, Visualization), XR (UE5), and GenAI for Creative with ability to build **first-generation applications** from scratch.
- **Emerging Tech** specialist in XR toolkits with data science, modeling, and **scientific visualization** capabilities for Web and XR (youtube.com/watch?v=xg3q4qXYDMg).
- **Social science** background with ability to structure very large data models with an understanding of human culture, geospatial statistics, algorithm development, and the scientific principles of data exploration and analysis. Veteran troubleshooting skills.

EMPLOYMENT

Director, AI, XR & Student Success

College of Information Science, The University of Arizona (July 2025 – Present)

Director, AI & Industry

Institute for Computation & Data-Enabled Insight, The University of Arizona (2023 – June 2024)

- Led pioneering **AI Core** experiential workforce program specializing in digital twinning, GenAI for coding, GPTs, and public workshops and speaking (<https://aicore.arizona.edu>)

Founder

Aeonic, LLC (2023 – Present)

- Consultancy providing strategic road maps, Agentic deployments, and sovereign/on-prem AI architectures for organizational transformation in the Digital Aeon. (<https://aeonic.ai>)

Lecturer, Technology & Entrepreneurship

Eller College of Management, The University of Arizona (2019 – 2023)

- Authored and taught numerous experiential grad/undergraduate entrepreneurship courses integrating AI, XR, social media, video, and web into business startup education.

Executive Director, Tech Core

Eller College of Management, The University of Arizona (2019 – 2022)

- Led innovative higher education experiential learning program engaging 300+ students annually with responsibility for strategic vision, budgets, funding, project management, application architecture, hiring, social media, recruitment, and brand.
- Led popular summer internship galvanizing ~100 grads/undergrads annually into a highly motivated high tech remote/in-person, 24/7 workforce rooted in *Discord*.
- Original HTML/C#/.NET and UEF codebases for training and staff evolution.

EMPLOYMENT

Data Scientist

Office of Global Initiatives, The University of Arizona (2017 – 2018)

- Authored data visualization platform unifying university research, travel, visiting scholars, international students, global alumni, and study abroad data into a single mapping application.

Director, Technology

Office of Global Initiatives, The University of Arizona (2013 – 2016)

- Engineered enterprise workflow automations integrating Shibboleth, CRM, project management, SaaS, and data warehousing operations. Managed IT Department and participated in institutional task forces.

SQL Server Engineer Regional OneSource, Phoenix Arizona (2009 – 2012)

- Engineered multi-dimensional data modeling software in SQL Server and VB.NET on a high-performance instance to automate the continuous production of a 3 TB structured model of US economic activity.
- Authored economic algorithms from scientific white paper for solving Class NP-Hard challenge of imputing all suppressed values in the BLS QCEW report with low variance across 4 dimensions.

Consultant (2001 – 2008)

- Constructed large data warehouse and UI/UX, Regional OneSource, New York Public Libraries.
- Delivered a C#.NET/SQL Server application for on-the-fly imputation of store-level pricing of individual items for Circle K Corporation.
- Authored enterprise application for management and synchronization of distributed SQL Servers, customer relations portal, and a suite of data aggregation, transformation, and publishing tools.
- Engineered high-volume email marketing engines and first-generation retail marketing services.

Director of Technology Netscool.com, Jakarta Indonesia (1999 – 2000)

- Directed an IT training center, imparting certification and Web Development skills to over 500 students in a developing market at the height of the dot com boom. Executive responsibilities, infrastructure, brand, and curriculum development.

Prior Owner of ashblack co., Web design and content development for public and private sector clients including the New Mexico Departments of Tourism, and Education (1998 – 1999). Webmaster at Studio X, Santa Fe, New Mexico (1997). Technical Builder and original Webmaster of *Baywatch* television program at Free Range Media, Seattle, Washington (1995 – 96).

EDUCATION

Master of Science, Archaeological Information Systems, with distinction – The University of York, 2012.

Bachelor of Arts, Anthropology, GIS, summa cum laude – The University of Arizona, 2010.

PUBLIC SPEAKING

2024 *Arizona Western College*, Horizons 2025 Business Summit, Keynote Speaker

2024 *Westmont Impact Conference*, Presenter

2024 *Public Sector Communicators*, AI & Public Safety, Speaker

2024 *Arizona Attractions Alliance*, AI & Tourism, Speaker

2023 *Arizona Technology Council*, Keynote Panelist for AI

2023 *AI² University of Arizona Working Group*, Industry Lead

2023 *Small Business Association*, GenAI Tools for Small Business, Speaker

2022 *Biosphere 2 Science in Motion Internship*, Academic Program Management

2020 *Eller Faculty Technology and Innovation Team*, Lead Contributor

2018 *University of Arizona VR Summit*, Moderator

2017 *University of Arizona Dean's IT Council*, Chair

2015 *Society for American Archaeology*, Presenter: Digital Archaeologies Group

2014 *Nature*, *The timing and spatiotemporal patterning of Neanderthal disappearance*, Contributor

2012 *Society for American Archaeology*, paper, *Temporal Mapping*, Presenter