

COLIN ANDREWS

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EDUCATION

Georgia Institute of Technology

Master of Science in **COMPUTER SCIENCE**, focus machine learning & artificial intelligence. **3.8 GPA**

Atlanta, USA

Aug 2017 - Aug 2019

Bachelor of Science in **ELECTRICAL ENGINEERING**, minor engineering & business. **3.86 GPA (Full Scholarship)**

Aug 2011 - Dec 2015

Oregon State University, **PERMACULTURE DESIGN PROFESSIONAL** certification

Jan - Jul 2023, Remote

SKILLS

Data: analytics (pandas, Alteryx), databases (SQL, Supabase), dashboards (matplotlib, Airtable, Tableau), blockchain systems

0 to 1 Product: functional/technical requirements, system design, prototyping, project planning, product management

Programming: no-code (buildship), backend/logic (Python), ops (github, Vercel, Linear), frontend (Typescript), cloud (AWS)

AI tools: LLMs (OpenAI API, Claude, Langchain), vector embeddings & RAG (Pinecone), ML algorithms & libraries (e.g. PyTorch)

Languages: English - *native*; German - *proficient*; Portuguese - *functional*, Spanish - *functional*, Arabic - *beginner*

WORK EXPERIENCE

Food Security Terminal

Bahrain

FOUNDER and AI ENGINEER : check it out at <lovecomm.ai/replit.app>

Jan 2024 - Present

- Creating **digital twins of food systems** using generative AI. Extracts structured data from human observations (text, voice, image) to document farm lifecycle, tracks plant and object states and yields, **organizes and manages tasks**, conducts experiments, creates a map, and uses its knowledge base to manage the what, when, and how of growing food.
- 4,000+ observations extracted, 400+ tasks completed, and 200+ plants, animals, and objects tracked at pilot project.
- **Led product management**. Created **functional requirements**, built [prototypes](#), supported technical CoFounder in dev.

United Nations Human Settlements Program (UN-Habitat)

Bahrain

URBAN DATA and INTELLIGENCE EXPERT CONSULTANT

Oct 2023 - Present

- **Coordinating global experts** and conducting field visits, data collection and data science, geospatial analysis, creation of dashboards, selection and analysis of KPIs, and action plan recommendations to plant 1.8 million trees in Bahrain by 2035.
- Integrating **strategies for ethical use and governance of AI** into Bahrain's urban observatory, Dubai AI project proposals.

Grid Singularity

Lisbon, Portugal & Berlin, Germany

RESEARCH SCIENTIST, energy market design and decentralization

Dec 2019 - May 2022

- **Designed API for AI Agents** to **algorithmically trade** 15-minute increments of home energy use (kWh), facilitating automated market participation. [Hosted and emceed](#) a hackathon for AI providers to prove a technical system milestone.
- Engineered and prototyped a **blockchain architecture** for [decentralized energy auctions](#) with multi-attribute order books.
- Researched and **wrote technical articles** and grant applications, **managed technical partners** for ecosystem development.

Kurt Salmon, part of Accenture Strategy

Atlanta & New York City, USA – 80% Travel

BUSINESS and ANALYTICS STRATEGY CONSULTANT

Feb 2016 - Feb 2019

- **Created ML and data models** in Python and Alteryx for **end-to-end supply chain analytics**, scenario analysis to optimize warehouse placement and operations, **process optimization**, financial decision-making, and global omnichannel strategy.
- Delivered technical presentations and strategic plans to executive leadership of 10+ companies incl. IKEA, Nike, Lowe's.
- Supported the Go-Live of Nike's \$300 million omnichannel distribution center.

AI PROJECTS

Forum: Built event assistant and feedback collection / aggregation tool (Telegram, OpenAI, AirTable APIs) at Startup Weekend

Custom GPTs: Developing custom GPTs (Buildship, Supabase) that [manage my booklist](#), collect and analyze symbology across my dreams, and create a weekly menu from a database of recipes and what's in my fridge.

Freeel.io : INCENTIVE DESIGN for CLEAN ENERGY ECOSYSTEMS

Aug 2019 - Oct 2019, Vienna, Austria

- **Developed solar energy microgrid simulation** in Python used at Diffusion token engineering hackathon (acting as judge).
- Wrote an article proposing an [ownership token protocol](#) to exchange value in distributed energy systems.

OTHER PROJECTS

Learn to Grow : Outdoor Educational Center and Regenerative Farm

Bahrain

FARM MANAGER and PERMACULTURE CONSULTANT

Jan 2023 - Present

- **Managing 2-acre farm and 2 full-time gardeners**, including plant and animal care, tasks, harvest (35,000 kg/year), data capture and documentation, compost and soil operations, and experimental projects to inform educational outcomes.
- The [regenerative farm](#) is home to 300+ plant and animal species, and 10 degrees C cooler than outside the fence.

Somebody Call a PhD : PODCAST CREATOR and HOST

2018 - Present, Virtual

- Interviewing PhDs to understand their passion, the research it drives, and the impact on technology and society.