Arnov Kandlikar

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PROFESSIONAL EDUCATION

University of Central Florida, Orlando, FL — May 2028
Computer Science, B.S. — GPA: 3.84

PROJECT EXPERIENCE

Reigns - AI Hallucination Detector — Hackathon Project | September 2026
Python, FastAPI, WebSockets, Claude API, MongoDB Atlas, SQLite, ElevenLabs, pytest

- Won **2nd place in the Assurant Challenge at ShellHacks 2026** (294 projects) with a desktop AI companion that fact-checks Claude replies in real time.
- Built the backend engine with **Python, FastAPI, and WebSockets**, extracting claims from each reply and verifying them in parallel against research databases, web search, and code libraries.
- Integrated **ElevenLabs** bilingual voice alerts and **MongoDB Atlas** learning; led the repo with **400+ tests**.

Form8tion - Dance Team Management App — Personal Project | September 2026 – Present
React Native, TypeScript, Expo, Supabase, PostgreSQL

- Built a cross-platform **mobile and web** app for college dance teams using **React Native, TypeScript, and Expo**, combining scheduling, RSVPs, attendance, team chat, and a photo feed.
- Engineered a **video-editor-style formation timeline** that syncs dancer positions and **stage props** to music, with drag-to-resize segments, animated transitions, and reusable templates.
- Designed the backend on **Supabase Auth, Storage, and Realtime** with **PostgreSQL row-level security** and **role-based permissions** to isolate team data, verified by automated **Playwright** tests.

Taskify - Full-Stack Kanban Workspace — Personal Project | March 2025
React, TypeScript, Supabase Postgres/Auth, dnd-kit

- Developed a responsive Kanban task manager with **React and TypeScript**, supporting task creation, editing, priorities, labels, due dates, and assignees.
- Added **dnd-kit** drag-and-drop, search, priority filters, and **optimistic updates** for responsive task management.
- Integrated **Supabase Postgres** and **anonymous authentication** with **row-level security** to persist tasks and isolate user data.

Robotics Club - UCF Project STORM — September 2024 – December 2024
Team Member

- Contributed to early-stage **Mars rover** design and development through UCF Robotics Club, collaborating with computer science, electrical engineering, and mechanical engineering students.
- Assisted with **sensor setup, testing, and troubleshooting** while learning how rover hardware supports autonomy and control.
- Gained hands-on exposure to **Arduino, Python, and C++** through robotics tasks and technical team workshops.

RESEARCH EXPERIENCE

Undergraduate Researcher — August 2026 – Present
University of Central Florida

- Screen research paper abstracts for a literature review on **software supply chain security,** identifying studies relevant to **software development pipelines.**
- Classify papers using predefined criteria, distinguishing **attack, defense, and unrelated** research.
- Document screening decisions to help build a curated set of relevant studies for analysis.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, JavaScript, TypeScript, HTML, CSS
Tools & Technologies: Git, GitHub, Linux/Unix, VS Code, PyCharm, REST APIs, WebSockets, Microsoft Office
Libraries & Frameworks: Next.js, React, React Native, Expo, FastAPI, Tailwind CSS
Data & Databases: PostgreSQL, Supabase, MongoDB Atlas, SQLite, NumPy, scikit-learn, Matplotlib, FastF1
Collaboration: Team-Based Development, Code Review, Rapid Prototyping
Concepts: Object-Oriented Programming (OOP), Data Structures & Algorithms, Web Development, Software Debugging, API Integration