CAMERON A. BRADY

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EDUCATION

Cornell University | College of Agriculture & Life Sciences **Ithaca, NY**
Bachelor of Science in Interdisciplinary Studies Computer Sciences | Applied Economics & Management | Agricultural Sciences *May 2024*

PROFESSIONAL EXPERIENCE

Full-Stack AI Software Engineer for Astral AI (2025 – Present)

- Building full-stack AI-powered web applications and web crawling automations for clients, notably enabling simple user interactions to trigger novel and intelligent data collection, streamlining faced-paced business workflows (e.g. primary source collection and article creation).
- Co-developing the core infrastructure for Astral, an enterprise AI "operating system", embedding with enterprise teams to deliver research-driven, outcome-aligned AI deployments in days, effectively enabling clients to achieve insurmountable competitive separation.

Independent Nonprofit Consultant for Community Mindfulness Project (2024 – Present)

- Developing industry-competitive, data-driven, and open-source nonprofit data collection and analysis tools to significantly reduce research time and effort in decisions involving comparable data, leveraging financial records from over 1.8 million American 501(c)3 organizations.
- Advising on strategic program development and board governance best practices and policies, resulting in clearer organizational vision and improved operational efficiency.
- Spearheading the creation of a brand new comprehensive digital board handbook, packed with clear information flow diagrams, thorough practice and policy documentation, a centralized and organized repository for important organizational and board-specific documents, and research-driven best practices, insights, and policies among nonprofits of similar size and resources.

Substitute Teacher at Arlington Central School District (2024 – Present)

- Delivering instruction across grades K-12, ranging from Kindergarten to AP Physics C and AP Calculus BC, ensuring continuity in learning and maintaining high engagement in the absence of regular faculty.
- Providing individualized student support with curated problem sets and new teaching materials, helping diverse learners develop stronger reasoning and problem-solving skills.

Head Teaching Assistant (TA) at Cornell Dyson School of Management (2022 – 2024)

- Served as Head TA for *AEM 3020: Farm Business Management*, leading five TAs by establishing standardized, tech-friendly workflows for lessons, grading, and office hours.
- Acted as a communication bridge and first point of contact for course administration, students, and peer TAs.
- Delivered well-prepared technical lectures in a perspicuous manner, enabling students of all backgrounds to understand complicated and vitally important business practices.

CEO & Co-Founder of The Clover Project, Inc. (2019 – 2024)

- Co-founded a mission-driven initiative to combat food insecurity by cultivating and distributing produce, managing a diverse team of six directors and over 250 volunteers.
- Implemented a comprehensive database system to track inventory, donations and financial records, and volunteer hours, streamlining organizational efficiency and leading to increased produce yields and people fed each year
- Conducted data-driven analyses of ecological and agricultural metrics, optimized workflows with targeted technical solutions, and thoroughly documented standard operation procedures for future iterations of the Clover Project, under a transferable community garden model.

SKILLS

- **Programming Languages:** Python | JavaScript | TypeScript | Java | SQL | Tailwind CSS | HTML/CSS
- **Software Frameworks/Libraries:** React | Next.js | FastAPI | Spring Boot | Scikit-learn | PyTorch | Pandas | NumPy | Seaborn
- **Tools:** AI | Git | Jupyter | Firecrawl | Supabase | Claude Code | Windows/Linux | Railway | Vercel | Docker | PostgreSQL | Drizzle ORM
- **Concepts:** Machine Learning | MCP | Data Analysis & Visualization | Data-Driven Decision-Making | UI/UX | Documentation

PROJECTS

Sesha-v4: AI-Powered Article Generation Platform (2025)

- Co-developing a full-stack generative AI platform that transforms source materials into professional articles through multi-step AI pipelines and modern technology (Next.js, React, TypeScript, Claude 4 Sonnet, Supabase, Tailwind).
- Implementing features to improve and streamline the article creation process for journalists, featuring intelligent source attribution and weaving, sophisticated plagiarism detection algorithms, real-time pipeline job status monitoring and live reporting, enterprise multi-tenant architecture with usage analytics, beautiful user interface (Shadcn, Tailwind, React), well-engineered prompts, and rapid article generation.

Nonprofit Data Scraper and Analytics Platform (2025)

- Created a powerful and comprehensive FastAPI Python platform for collecting and analyzing nonprofit financial data from ProPublica's Nonprofit Explorer API and PDF/XML IRS Form 990 filings, using Google's Gemini 2.5 Flash and custom computer vision tools (OCR).
- Designed user interface and experience (UI/UX) through a multi-persona-based lens, focusing on simple but highly flexible user interactions and reporting for quick but deep insights, adding features like real-time graphical user interface (GUI) monitoring and rich Excel/CSV output.

Parkinson's Detection with Machine Learning (2024 – 2025)

- Constructing a machine learning pipeline to detect Parkinson's disease from vocal biometrics data with up to 94.9% prediction accuracy, enabling the possibility of early intervention through refined symptom analysis.
- Leveraged ensemble methods (Random Forest, Boosting), single-classifier methods (SVM), and predictive classifier methods (logistic regression), hyperparameter tuning and cross-validation to maximize performance (scikit-learn's GridSearchCV).
- Presented statistical insights in a dashboard designed for users of all technical backgrounds, with meaningful data visualizations and descriptive statistics to inform on trends in speech data to Parkinson's diagnosis.