

Aidan Eichman

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EDUCATION

- Columbia University** - *B.A. in Computer Science and Mathematics* | GPA: 4.00 New York, NY | Sep. 2021 – Dec. 2024
- Courses: Adv. Linear Algebra, Adv. Programming, Comp. Complexity, CS Projects, OS, Analysis of Algorithms, MVC, PDE, AI
 - Activities: CUSJ Outreach Chair/Writer, CUEA AI Safety Fellow, CU Quant, IM Basketball
- University of Oxford** - *Visiting Student, Magdalen College* | GPA: 4.00 Oxford, UK | Jan. – Jun. 2024
- Courses: ML, Algorithms, Number Theory, Probability Theory tutorials supervised by Dr. Andrey Kravchenko

PROFESSIONAL EXPERIENCE

- Morgan Stanley** - *Full-Stack Tech Analyst* New York, NY | Mar. 2025 – Present
- Spearheaded end-to-end development of an AVM Report Tab on the core lending web platform, delivering a production-ready full-stack system within the first month
 - Led mockups, architecture, unit testing, and deployment for the upcoming production release, with a focus on auditability
 - Partnered daily with traders, strats, compliance, and stakeholders to ensure private-data governance and system observability
 - Advocated for LLM adoption in legacy system modernization to improve internal workflows and future-proof enterprise tooling
 - Embedded user feedback loops in design cycles and contributed to the evolution of internal SOPs and scalable UI patterns
- Los Angeles Dodgers** - *Baseball Systems Software Engineering Intern* Los Angeles, CA | Jun. 2024 – Aug. 2024
- Solely ideated, architected, implemented, and deployed a greenfield AI anomaly detection system to flag suspicious pitch data
 - Developed scalable, production-grade ML pipelines using EIF, deployed via containerized APIs with CI/CD, Docker, and K8s
 - Integrated system with AWS EC2 / CloudWatch for monitoring, resource optimization, and tuning for continuous improvement
 - Collaborated with stakeholders to translate domain needs into ML architecture and real-time inference logic
 - Delivered high-impact AI to operations; the only intern in program history to ship an end-to-end greenfield system to production
- Karu Learning** - *Software and Core AI Developer* Vancouver, BC | May 2023 – Aug. 2024
- Designed parallel LLM pipelines to generate 1.2M+ GPT-based questions with real-time refinement through SME feedback
 - Shipped 11 production features involving prompt design, agent workflows, and evaluation loops for auditability
 - Owned backend infrastructure (Prisma, Redis) and development components to support scalable, modular AI applications
 - Launched an academic-advisor chatbot that drove a 173% increase in user count, reaching over 150,000 students
- Columbia CS** - *Advanced Programming Teaching Assistant* New York, NY | Sep. 2023 – Jan. 2024
- Wrote infrastructure automation scripts, supported 500+ students, and earned top TA marks in communication and knowledge
- Columbia Baseball Team** - *Data Analyst* New York, NY | Mar. – Sep. 2022
- Built regression models and predictive analytics pipelines in Python and R for player-performance evaluations

SELECTED PROJECTS

- MLB Draft Evaluation Model** | C++, Python, Kubernetes, Docker, CI/CD Pipelines, AWS EC2, ECR, EDA Jun. 2024 – Present
- Constructed a neural classifier to evaluate teams' drafting success using PCA and performance clustering (92% accuracy)
 - Delivered insights directly to Dodgers GMs and Scouting Operations
- Portfolio Optimizer** | Python, Event-Driven Architecture, ML, Scikit-Learn Mar. 2024 – Aug. 2024
- Engineered a robust portfolio optimization tool using time-series validation, improving returns by 19% over traditional methods
- Karu Bot** | C++, JavaScript, Python, OpenAI API, Prisma, Routing, Git May 2023 – Aug. 2024
- Built a chatbot that integrated GPT-4 with dynamic routing, diagnostic workflows, and feedback loops for auditable LLM tasks
- UmpAI** | Python, Selenium, Keras, ML Jan. 2023 – Present
- Designed an FNN model to evaluate umpire call accuracy with play-by-play MLB pitch data, modeling explainable predictions
 - Currently under review for publication

AWARDS, SKILLS, & INTERESTS

Awards: Columbia Dean's List (x8), American CS League International Champion, Michigan Student-Athlete of the Year

Languages/Tools: C++, C, Python, Java, Node.js, SQL, NoSQL, Angular, Git, Docker, PyTorch, Transformers, NumPy, K8s, CI/CD

Outside Interests: Baseball, Chess, Theater, Films, Traveling, Epistemology, Logic

REFERENCES

John Focht, Senior Director, Baseball Systems Platform, Los Angeles Dodgers
JohnF@ladodgers.com

Dr. Brian Plancher, Associate Professor of Computer Science, Columbia University
bplancher@barnard.edu

Dr. Andrey Kravchenko, Lecturer in Computer Science, Christ Church, University of Oxford
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