Aidan Eichman

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EDUCATION

Columbia University | New York, NY | *BA Computer Science and Applied Mathematics* Expected May 2025
- Dean's List (All eligible semesters) GPA: 4.05
- Relevant Coursework: Data Structures, Adv. Programming in C, CS Theory, Undergraduate Projects in CS
- Current Project (Mentor: Dr. Brian Plancher): Classification of Home Plate Umpires' Incorrect Calls Using Machine Learning

Kalamazoo Area Math and Science Center | Kalamazoo, MI | *High School Diploma* September 2017 – June 2021
- Valedictorian (Rank: 1/307), Director's Award Recipient (All A's for 8 semesters) GPA: 4.91
- Relevant Coursework: Discrete Mathematics, Adv. Programming in Python, and AP Computer Science-A

WORK & RESEARCH EXPERIENCE

IcyTutors | Vancouver, BC | *Software and AI Core Development Intern* May 2023 – Present
- Created an AI chatbot for tutor assistance using the GPT-3 API and dynamic AI-based diagnostic tests to guide students' needs
- Implemented parallelized data pipelines for 1,200,00 GPT-generated test questions for each concept with JS and Python

Columbia Dept. of Civil Engineering | Remote | *Machine Learning Researcher* May 2023 – Present
- Worked with Dr. Xuan Di on an analysis of robust data distillation with a game-theoretic framework

Inspirit AI | Kalamazoo, MI | *Business Growth, Analytics, and Outreach Intern* June – September 2022
- Promoted 8 AI courses and research offerings to 1,000+ prospective clients through cold phone calls
- Generated 51 immediate new clients and obtained an 81% callback rate after the initial conversation
- Mastered Excel PivotTable, vlookup, import range, SQL queries, and more to consolidate and organize data for analysis
- Garnered the highest "positive" call rate of all interns (89%) and promptly resolved caller concerns

Western Michigan University Research | Kalamazoo, MI | *AI Researcher and Data Analyst* September 2019 – Present
- Worked in the Transformative Interdisciplinary Human & AI Research Group to customize and refine modules
- Collaborated with university staff while collecting, analyzing, and presenting UK R-matrix software data
- Learned and taught Linux software applications to run 1,000+ probabilistic simulations for exoplanet investigation
- Wrote and presented weekly analytical reports to university staff

Columbia University Baseball Team | New York, NY | *Data Analyst* March – September 2022
- Produced wOBA/xwOBA analyses in R and Python for coaches and players as a metric for hitting performance and trends
- Navigated modern baseball technology like Rapsodo and TrackMan to gather and consolidate data

CodeDay Labs/University of Washington | Remote | *Software Engineering Intern* March 2020 – January 2021
- Collaborated with university professors to develop and test components of 5 collegiate computer science courses
- Implemented C++ source code syntax highlighting and structural code comparison for 11 programming languages
- Led group debugging of approaches and algorithms, prepared reports for project mentors, and maintained SQL databases

LEADERSHIP & COMMUNITY INVOLVEMENT

Columbia Effective Altruism | *AI Safety Fellow* September 2022 – April 2023
- Attend and engage in weekly guest lectures and peer discussions about the impacts of AI on societal safety
- Paired with an AI start-up leader to implement a project for social media AI oppression and racism

Columbia Undergraduate Science Journal | *Associate Editor/Outreach Chair* September 2022 – Present
- Organizing a CUSJ x Crimson Education Science Fair for 50+ schools in the Bronx, Manhattan, and New Jersey
- Facilitate weekly inter-committee meetings to analyze performance and forecast projects

Columbia Science Review | *Scientific Article Writer* September 2022 – Present
- Write bi-weekly online and print articles covering recent developments in AI and technology across the world

KAMSC Computer Science Programming Team | *Captain and Group Leader* September 2019 – June 2021
- Co-organized 50+ practice contests and algorithm analysis sessions for classmates
- Aided in pseudocode creation and complex debugging of USA Computing Olympiad Training Tasks
- American Computer Science League International Classroom-Division Champion (1st out of 2,000+ students worldwide)

TECHNICAL SKILLS & LANGUAGES

- Languages: Java, C++, C, Python, JavaScript, HTML, CSS, SQL, R
- Skills: Data Structures, Algorithms, Interfaces, OS, OOP Design, Microsoft Office, RStudio, Linux, Network Programming, Git