Julian Zimmermann

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Software, Data, and AI-Developer
Business & Technology Management

EDUCATION

NYU Tandon School of Engineering | B.S. in Business and Technology Management — Expected May 2029
New York, NY
Pursuing a B.S. in Business and Technology Management, combining business strategy, data analysis, and technology to solve organizational problems.

Bard High School Early College | Associate of Arts — Jun 2025
New York, NY
Completed a rigorous dual-enrollment program, earning an Associate of Arts alongside a high school diploma through college-level coursework. Recipient of the Mathematics and Computer Science Award and a Certificate in Afrikana Studies earned through 4 courses over 2 years.

University of Pennsylvania | School of Engineering, Computer Science — Summer 2024
Philadelphia, PA
Completed an intensive, for-credit Penn Engineering summer course in computer science; used Python to analyze supermarket sales data and inform pricing and inventory decisions.

EXPERIENCE

Special Projects | Mellon Inc., Sarnia, ON — Sep 2025 – Dec 2025
- Contributed to the design of systems intended to improve the operational lifespan and reliability of electrical equipment.
- Built an application that processes transformer-oil Dissolved Gas Analysis (DGA) results and evaluates them using multiple established diagnostic methods, reducing DGA analysis time by 60 percent.
- Integrated DGA findings into an automated reporting tool, translating analysis results into standardized reliability reports with minimal manual data entry.
- Built a Python application that uses an API to convert field test reports into structured CSV data, then automatically generates 25-page reliability reports with clear interpretations of whether results meet performance standards; reduced manual report preparation by an estimated 10 hours per report.

Research Participant | NASA SEES, University of Texas at Austin (Remote) — Jun 2024 – Jul 2024
- Developed a wildfire-risk assessment tool using satellite imagery and YOLOv8 image segmentation.
- Analyzed 10,000+ NASA datasets to support real-time risk mapping and environmental modeling.

Founder | Taskboys, New York, NY — May 2016 – Present
- Built a tech-support service serving 200+ clients and generating $15K+ in revenue.
- Developed a customer portal for a local preschool and increased website traffic 40% through SEO.

Founder & Teacher | TechDreamers, Remote/Global — Jan 2023 – Present
- Founded weekly computer-science classes for Nigerian students; grew enrollment from 6 to 300 students in one year.
- Raised $6,000 for computers and created a program website to support the initiative.

SKILLS & ADDITIONAL INFORMATION

Programming: Python, Java, JavaScript, C
Data & Tools: Pandas, NumPy, Matplotlib, Jupyter Notebooks, AppEARS, Tableau, NASA Worldview, Raspberry Pi
Languages: English (fluent), German (fluent), Latin (intermediate)
Leadership: Presidential Volunteer Service Award (200+ service hours); NYC Science and Engineering Fair, First Place

ACTIVITIES & HONORS

FAA Pilot in Training: 20+ flight hours; training toward a Private Pilot Certificate with experience in flight planning, radio navigation, and pre-flight inspection.
Climbing: USA Climbing competitor; led outdoor climbing and mountaineering expeditions in New York, Puerto Rico, Italy, and France.
Honors: Math Olympiad Contest, top 5% among participating schools; Point of Light Award nominee.