

Owen Kobasz

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EDUCATION

University of Pennsylvania, School of Engineering	Philadelphia, PA
<i>Master of Science – Dual Degree: Computer Science and Artificial Intelligence</i>	2023 – 2025
St. John's College	Santa Fe, NM
<i>Bachelor of Arts</i>	2014 – 2018
• Founder & President, Photography Club; Student Coffee Shop Manager	

EXPERIENCE

Graduate Teaching Assistant	2025 – Present
<i>University of Pennsylvania</i>	<i>Philadelphia, PA</i>
• Led recitations, office hours, and grading for a graduate algorithms course serving 300+ students	
• Mentored students on graph algorithms, dynamic programming, and NP-completeness, emphasizing correctness and complexity analysis	
• Reviewed and debugged student implementations, evaluating runtime tradeoffs and edge-case handling	
Editor	2018 – 2025
<i>Photo-Eye</i>	<i>Santa Fe, NM</i>
• Led editorial content production across social media, newsletters, and blog platforms, designing repeatable publishing workflows and maintaining content quality at scale	
• Grew Instagram audience from 18k to 65k+ by integrating e-commerce tooling, campaign analytics, and platform-specific content pipelines, with supporting HTML/CSS site updates and light JavaScript maintenance	
Gallery Director	2021 – 2023
<i>PhotoLounge</i>	<i>Philadelphia, PA</i>
• Founded and operated a new gallery program, designing operational workflows, timelines, and decision processes under real-world resource constraints	
• Planned and executed 20+ exhibitions by coordinating schedules, logistics, and stakeholders, balancing scope, deadlines, and quality	

PROJECTS

Cyclone: Bike Route Generator <i>React, Node.js, SQLite, OSMnx, Leaflet</i>	2025
• Built a full-stack web application that generates custom cycling routes by orchestrating AI-driven waypoint selection with external routing services	
• Implemented a React/Vite front end using Tailwind and React-Leaflet for interactive map visualization, ride preferences, and GPX export	
• Integrated GPT-4i for waypoint generation and Valhalla for route assembly, handling API coordination and route validation	
Turbo: Auto Market Insights <i>React, Node.js, PostgreSQL, AWS, Python</i>	2025
• Built a full-stack platform for analyzing vehicle listings and market pricing to support consumer and dealer decision-making	
• Developed data ingestion and search pipelines using scraped Craigslist listings, normalized PostgreSQL schemas, and backend filtering logic	

VOLUNTEER WORK

Mechanic	2022 – Present
<i>Neighborhood Bike Works</i>	<i>Philadelphia, PA</i>
Tech Team	2023 – Present
<i>Philly Bike Action</i>	<i>Philadelphia, PA</i>

TECHNICAL SKILLS

Languages: Python, Java, SQL, C/C++, JavaScript, TypeScript, HTML/CSS, LaTeX
Frameworks: React, Node.js, Django, Flask, Material UI, Tailwind CSS, PostgreSQL
Developer Tools: Git/GitHub, Docker, DBeaver, JetBrains, VS Code, Linux
Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, PyTorch, Seaborn, Plotly, PySpark