

# Owen Kobasz

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## EDUCATION

<b>University of Pennsylvania, School of Engineering</b>	Philadelphia, PA
<i>Master of Science – Dual Degree: Computer Science and Artificial Intelligence</i>	2023 – 2025
<b>St. John's College</b>	Santa Fe, NM
<i>Bachelor of Arts</i>	2014 – 2018

## EXPERIENCE

<b>Graduate Teaching Assistant</b>	2025 – Present
<i>University of Pennsylvania</i>	<i>Philadelphia, PA</i>
<ul style="list-style-type: none"><li>Led recitations, office hours, and grading for a graduate algorithms course serving 300+ students</li><li>Mentored students on graph algorithms, dynamic programming, and NP-completeness, emphasizing correctness and complexity analysis</li><li>Reviewed and debugged student implementations, evaluating runtime tradeoffs and edge-case handling</li></ul>	
<b>Editor</b>	2018 – 2025
<i>Photo-Eye</i>	<i>Santa Fe, NM</i>
<ul style="list-style-type: none"><li>Led editorial content production across social media, newsletters, and blog platforms, designing repeatable publishing workflows and maintaining content quality at scale</li><li>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</li></ul>	
<b>Gallery Director</b>	2021 – 2023
<i>PhotoLounge</i>	<i>Philadelphia, PA</i>
<ul style="list-style-type: none"><li>Founded and operated a new gallery program, designing operational workflows, timelines, and decision processes under real-world resource constraints</li><li>Planned and executed 20+ exhibitions by coordinating schedules, logistics, and stakeholders, balancing scope, deadlines, and quality</li></ul>	

## PROJECTS

<b>Cyclone: Bike Route Generator</b>   <i>React, Node.js, SQLite, OSMnx, Leaflet</i>	2025
<ul style="list-style-type: none"><li>Built a full-stack web application that generates custom cycling routes by orchestrating AI-driven waypoint selection with external routing services</li><li>Implemented a React/Vite front end using Tailwind and React-Leaflet for interactive map visualization, ride preferences, and GPX export</li><li>Integrated GPT-4i for waypoint generation and Valhalla for route assembly, handling API coordination and route validation</li></ul>	
<b>Turbo: Auto Market Insights</b>   <i>React, Node.js, PostgreSQL, AWS, Python</i>	2025
<ul style="list-style-type: none"><li>Built a full-stack platform for analyzing vehicle listings and market pricing to support consumer and dealer decision-making</li><li>Developed data ingestion and search pipelines using scraped Craigslist listings, normalized PostgreSQL schemas, and backend filtering logic</li></ul>	

## VOLUNTEER WORK

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