Tyler Klimas

248-795-4554 | tyler.klimas@duke.edu | https://tklimas.xyz/ | github.com/detroitnatif | linkedin.com/in/tylerklms

EDUCATION

Duke University   **Aug. 2021 – May 2025**
BA Computer Science | BA French
- Software Engineer for Duke Robotics Team
- Member of Duke Cyber Team (Policy and CTF competition)
- Relevant Coursework: Data Structures & Algorithms, Elements of Machine Learning, Computer Systems, Natural Language Processing, Engineering Computational Methods, Data Analysis & ML
- Experience with PyTorch, Apache Spark, Kafka, Airflow, HuggingFace, LangChain, OpenAI SDK, RAG, YOLO
- DevOps experience deploying Kubernetes clusters, Docker containers, AWS EC2 instances, integrating Datadog APM
- Cybersecurity experience with Kali Linux, Portswigger, Metasploit, Operating Systems, computer networking.

Farmington High School   **Aug. 2017 – May 2021**
High School Diploma   *Farmington, MI*
- 4.0/4.0 GPA
- 35 ACT
- AP Scholar with Distinction
- All State Golf Team 2019

EXPERIENCE

Technical Product Manager   **May 2024 – Jul 2024**
Validity.id   *Chicago, IL*
- Lead software engineer at digital credential startup Validity.id
- Fundraised $500k seed round from Maven Ventures
- Wrote smart contracts in Solidity to batch upload student credentials for clients Duke and Rice University
- Shipped Next.js frontend to interact with Optimism L2 smart contracts
- Orchestrated MongoDB deployment on AWS EC2, increasing database performance and availability to support user interactions.

Software Engineer Intern   **Jul 2022 – Oct 2022**
Kiski Financial Group   *New York, NY*
- Responsible for the creation and development of financial reports (Correlation matrices, portfolio dispersions, etc)
- Interacted with company databases using SQL to utilize PowerBI and Tableau tooling
- Designed and built software using React.js and PowerBI to create a new generation client view

Rotational Technology Intern   **Jul 2023 – Sep 2023**
Founders Table   *New York, NY*
- Beta tested and worked alongside the software engineering team to develop new generation software to upload quality control checks automatically
- Designed an AWS Lambda function to integrate with Toast POS API, ensuring operations for a restauraunt group of 100+ locations.
- Learned the entire technology stack enabling operations, supply chain management and accounting
- Interacted with suppliers to manage contracts to combat inflation and its impact on COGS

Software Engineer Intern   **May 2022 – Jul 2022**
Duke Office of Information Technology   *Durham, NC*
- As part of the Code+ program, developed and deployed Duke FixIt, an interactive web application which allows staff and students to conveniently report issues in their dorm, classroom, etc.
- Interfaced with Facilities Management to create a system which seamlessly integrated with their existing systems and workflows
- Utilized Ruby on Rails (Backend), React.js (Frontend), Docker, and Kubernetes

RESEARCH

Research Assistant   **Jun 2024 – Present**
Duke Marine Robotics and Remote Sensing Lab   *Durham, NC*
- Programmed Autonomous Drone Flights (DJI Matrice 350) to survey Ft. Macon State Park
- Utilized Pix4D to create orthomosaic photogrammetry maps
- Finetuned YOLOv8 model to classify habitat species for endemic species of the Outer Banks
- Trained and Deployed YOLOv8 computer vision model on Azure GPU.

PROJECTS

Text-to-Video   **May 2024**
Runway.ai, ChatGPT API, FFMpeg, OpenCV, Streamlit
- Built full-stack application using Runway.ai, ChatGPT, and FFmpeg to create generative videos on demand.
- Utilized image diffusion model to create video frames.
- Hosted and usable on Streamlit.

SportsBetAI   **May 2024**
TypeScript, Prisma, Kafka, Airflow, Clerk, SerperAPI, OpenAI
- TypeScript application with Prisma database, Clerk authentication, SerperAPI, and OpenAI integration.
- Built data pipeline using Apache Airflow and Kafka
- Enabled users to search the web for updated sports stats to inform their bets.

EXTRACURRICULAR EXPERIENCE

Member   **Aug 2021 – Present**
Duke Robotics Team   *Durham, NC*
- Program autonomous robot system to compete in the Navy's Robo-Sub competition.
- Utilized ROS for controls, React.js for GUI, and OpenCV + DepthAI for computer vision.
- Developed Unity simulation in C# to generate synthetic training data for object detection model.

Member   **Aug 2021 – Present**
Duke Cybersecurity Team   *Durham, NC*
- Compete in Cyber 9/12 strategy Public speaking competition organized by Atlantic Council
- Advanced to Finals in 2024 NYC Financial Markets Cybersecurity event.
- Organize and staff annual Duke Cybersecurity Conference.

TECHNICAL SKILLS

- Languages: Python, Java, JavaScript, C++, TypeScript, Ruby, SQL
- Frameworks: React.js, Next.js, Ruby on Rails, PyTorch, PySpark, Solidity, ROS
- DevOps: Kubernetes, Docker, AWS EC2, Serverless frameworks (AWS Lambda), Datadog APM
- Libraries: HuggingFace, LangChain, OpenAI SDK, YOLOv8, QisKit

ADDITIONAL INFORMATION

- Studied at Sorbonne University, Paris, France (2023-2024)
- Fluent in French, Conversational in Arabic
- Golf (+1 Handicap), Skiing, Chess, Poker, Caddying