

Jacob Platin

(314)-605-4110 ✉ jplatin@seas.upenn.edu 🌐 jrplatin.github.io G github.com/jrplatin L linkedin.com/in/jacob-platin

EDUCATION AND SKILLS

University of Pennsylvania, School of Engineering and Applied Science
*Master of Science in Engineering in **Robotics** (Computer Vision Specialty), GPA 3.5/4.0*

Philadelphia, PA
Aug 2017 – Dec 2021

- **Relevant Coursework:** Machine Learning, Network System Design, Computer Vision, Deep Learning

University of Pennsylvania, School of Engineering and Applied Science
*Bachelor of Science in Engineering, Majors in **Computer Science** & **Economics**, GPA 3.5/4.0*

Philadelphia, PA
Aug 2017 - Dec 2021

- **Relevant Coursework:** Cloud Computing/Scalability, Econometrics, Game Theory, Data Structures, Software Design
- **Relevant Languages:** Python (strongest), C++/C, Java, Go, R, Groovy, SQL, OCaml, Swift, Ruby, Bash
- **Skills and Frameworks:** PyTorch, AWS (EC2 + EBS/EFS), Jenkins, Kubernetes, Azure/GCS, Express, CSS, Angular, Rails, Git
- **Areas of Interest:** Reliable neural networks, automation, testing, full-stack integration, cloud computing, infrastructure

ETH Zurich, Departments of Computer Science and Economics
Exchange Program, GPA 3.75/4.0

Zurich, Switzerland
Sep 2019 - Dec 2019

- **Relevant Coursework:** Computer Architecture, Reliable Artificial Intelligence, Wireless/Mobile Computing

EXPERIENCE

NVIDIA | Software Engineer Intern | Redmond, WA

February 2021 - May 2021

- Currently working in the cloud services division on the GeForce Now streaming game services team
- Spearheaded an exploration of AWS and GCP applications

Unity Technologies | Software Engineer Intern (AI) | Seattle, WA

May 2020 - August 2020

- Explored and implemented classical and machine-learning driven robotic manipulation in the Unity engine
- Integrated motion planning and inverse kinematics for robotic arms (e.g. UR3) into Unity
- Tested and integrated a more efficient bridge between ROS and Unity

Aidoc | Cloud Computing Intern | Tel Aviv, Israel

June 2019 - August 2019

- Deployed medical (including pulmonary embolism and intracranial hemorrhage) prediction algorithms and data selection tools on AWS EC2 instances with a robust EFS and EBS storage solution using Python
- Participated in weekly discussions on state-of-the-art medical deep-learning algorithms and used Keras to test the feasibility of these developments on Aidoc's current prediction algorithms

Strayos | Data Science and Full-Stack Intern | St. Louis, MO

May 2018 - August 2018

- Implemented a role-based action control (RBAC) protocol within Strayos' web app using full-stack knowledge, which included utilizing Ruby, Rails, SQL, Angular, RxJS, CSS, JavaScript, and HTML
- Created internal and end-user documentation and used SQL, PostgreSQL, and SSH protocol to migrate while also analyzing user data via Hadoop and performing basic Kubernetes tasks

PROJECTS AND TECHNICAL LEADERSHIP

Wharton Undergraduate Aerospace Club | Co-Founder

October 2020 - Present

- Co-founded Wharton's first aerospace club focused on applying business principles to aerospace creatively.

CAS-NN (Commercial Air Safety – Neural Network) | Lead

June 2019 - Present

- Currently developing a robust neural network to detect maintenance anomalies in commercial aircraft
- Anomalies include metal fatigue and fuse-pin misalignment, and adversarial defense techniques are used.

Penn Aerospace Club | Co-Head

August 2017 - Present

- Spearhead Penn's 100-person aerospace club, including overseeing rocketry, ballooning, and aircraft
- Enabled our teams to travel to the 3 national competitions and complete over 10 progressive launches

DATF (Domestic Autos Time Series Forecast) | Author

January 2019 - Present

- Currently undertaking advanced economic time series forecasting using R as part of Penn Economics

PythonCV | Sole Programming Lead

January 2019 - August 2020

- Implemented a variety of advanced computer vision algorithms in a simple Python library

OTHER LEADERSHIP

Phi Kappa Psi | President

November 2019 - Current

- Leading the Iota chapter at Penn, which has over 70 members and partakes in a variety of community events