

Michael Yakubov

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EXPERIENCE

J.P. MORGAN CHASE & CO

Software Engineering Program Intern

Jun 2021 – Aug 2021

Remote

- Built a Spring Boot application that gathers and processes data from Kafka events to help financial advisors.
- Extracted and compiled key words from text using NLP entity recognition.

LABORLESS

Software Engineering Intern

Jun 2020 – Jun 2021

Remote

- Delivered a generic REST API integration for multiple services using OAuth, SQL, and Django framework (Python).
- Collaborated with a third-party service to build, implement, and deploy a REST API integration.

WINLAB (Wireless Information Network Laboratory)

Research Project Intern

Jun 2020 – Aug 2020

New Brunswick, NJ

- Explored the use of Field Programmable Gate Arrays (FPGA) for machine learning acceleration with a partner, under the supervision of Professor Richard Martin.
- Programmed a neural network in Go using to recognize handwritten digits with a 97% success rate.

RUTGERS LEARNING CENTER

Electrical Engineering and Computer Science Tutor

Feb 2020 – Present

New Brunswick, NJ

- Aid students in various STEM courses to reinforce course material and encourage student success.
- Lead weekly sessions for groups of 2-7 students to foster a collaborative learning environment.
- Students scored at least a letter grade higher on exams and assignments after attending these sessions.

RESEARCH

MACHINE LEARNING WITH FPGAS

FEB 2021 – MAY 2021

- Built a neural network in Go using only integers with fixed point representation for floating point numbers, to recognize handwritten digits.
- Integer network had an accuracy of around 88%, around 9% lower than its floating-point counterpart.

EDUCATION

Rutgers University, School of Engineering Honors Academy

BS in Electrical Engineering and Computer Science, Minor in Economics

May 2022

New Brunswick, NJ

- GPA: 3.95/4.0
- Coursework: Data Structures, Algorithms, Machine Learning, Electrical Engineering I & II, Digital Electronics, Digital Signal Processing, Computer Architecture, Software Methodology
- Leadership:
 - **Vice President** - Tau Beta Pi (Engineering Honor Society)
 - **President** - Rutgers Kokikai Aikido
 - **Vice President** - Rutgers Water Polo
 - **Interviewer** - Honors Academy Networking Committee
 - **Discussion Leader** - Rutgers Engineers Assessing Literature

OTHER

- **Technical Skills:** Django, OpenCV, OAuth, Unity, Scikit Learn, Git, Machine Learning, Spring Boot, Kafka
- **Programming Languages:** C, C++, C#, Python, Java, Javascript, MATLAB, HTML, CSS, Go
- **Languages:** English (native), Russian (Native), Spanish (intermediate)
- **Miscellaneous:** 14 years of piano experience, chess, probability-based games