Nikolay Pomytkin

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EDUCATION

University of Maryland - College Park, MD — **Aug. 2018 - Dec. 2021**
Bachelor's of Science, Computer Science and Economics — GPA: 3.76

- Intro to Data Structures, Computer Systems, Discrete Mathematics
- Algorithms, Organization of Programming Languages, Macroeconomic Analysis

EXPERIENCE

The Depository Trust & Clearing Corporation — Jersey City, NJ
Infrastructure Developer Intern — **May 2019 - Aug. 2019**

- Developed web dashboard from scratch (using **Python** and **Flask**) to allow L1/L2 support admins to execute scripts and monitor logs on over 100 remote servers from a centralized web interface.
- Updated shell scripts responsible for log monitoring to reduce occurrences of missing log information and eliminate 3 hour delays in log report delivery.

University of Maryland — College Park, MD
Undergraduate Teaching Assistant - Object-Oriented Programming II — **Aug. 2019 - Present**

- Taught 2 class discussion sections of 30 students on a bi-weekly basis, reviewing course content including Object-oriented Programming, Data Structures, and development with the Eclipse IDE.
- Held office hours to individually tutor students on debugging programs, recognizing logical and syntax errors, and properly planning and organizing projects.

Guided Study Session Leader - Calculus II — **Jan. 2019 - Present**

- Planned and facilitated bi-weekly 50-minute collaborative Guided Study Sessions each week for a total of 22 sessions over the course of a semester.

LANGUAGES Java, Python, C, Bash, Ruby, x86 Assembly, SQL, LaTeX, HTML, CSS, JavaScript.
TOOLS Flask, SQLAlchemy, TensorFlow, Pandas, NumPy, JUnit, CHEF, Kubernetes, Git, Jira.
INTERESTS Distributed Systems, DevOps, Full-stack Web Development, Microservices, Data Science.

PROJECTS

Moody - Hackathon Project — **April 2019**

- Developed **Flask** application that interfaced with a custom CNN for facial expression classification.
- Designed and implemented front-end for an elegant dashboard allowing users to keep track of their mood over time and upload images of their face for mood classification.
- **1st Place Overall and Best AI Hack** at Spring 2019 HackRU out of 100+ projects.

PowerGPA - Personal Project — **May 2017**

- Developed a **Sinatra** web application written in **Ruby** that allows students to automatically confidentially calculate their real-time weighted GPA using the PowerSchool **REST API**.
- Over 100,000 GPAs have been calculated since creation.

Find these projects and more on my Github...

ACTIVITIES

Bitcamp - University of Maryland's Flagship Hackathon — College Park, MD
Director of Internal Sponsorship — **Jun. 2019 - Present**

- Leading organizing team responsible for fundraising for Bitcamp 2020 and serving as the primary point of contact for UMD affiliated corporate partners.

Sponsorship Organizer — **Dec. 2018 - May 2019**

- Worked with sponsorship team to secure and manage funding for the largest college hackathon on the east coast.

FIRE Capital One Machine Learning Lab — College Park, MD
Research Fellow — **Jan. 2019 - Present**

- Exploring the use of novel machine learning techniques for extreme image compression.
- Designed and implemented deep learning architecture involving semantic image segmentation and compressive auto-encoders.

AWARDS

University of Maryland
- Dean's List: College of Computer and Mathematical Sciences — **Dec. 2018 - Present**
- University of Maryland: President's Scholarship

HackRU (Rutgers University, New Brunswick, NJ)
- Moody: 1st Place Overall and Best AI/ML Hack — **April 2019**
- Beat the Bully Platformer Game: Best College-themed Hack — **April 2018**

(References available upon request.)