

Nikolay Pomytkin

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EDUCATION

University of Maryland, College Park

Aug. 2018 - May 2022

Bachelor of Science, Computer Science and Economics

- Data Structures, Computer Systems, Algorithms, Organization of Programming Languages, Discrete Mathematics

EXPERIENCE

Clarissa.ai

New York, NY

Co-founder, CTO

Apr. 2020 - Aug. 2020

- Led team of 5 engineers throughout the design and development of [clarissa.ai](#), an intelligent medical assistant with features including symptom recognition through NLP, illness tracking and diagnosis, and a patient-doctor connection platform.
- Architected and developed full-stack web application with a React.js frontend hosted on Netlify and a RESTful Flask API.
- Created DevOps Pipeline using GitHub Actions to deploy Dockerized backend to AWS ElasticBeanstalk.

University of Maryland

College Park, MD

Undergraduate Teaching Facilitator - Engineering Ethics (ENEE200)

Aug. 2020 - Present

Undergraduate Teaching Assistant - Global Economics (ECON317)

Aug. 2020 - Present

Undergraduate Teaching Assistant - Object-Oriented Programming II (CMSC132)

Aug. 2019 - Present

- Teaching 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.
- Hold office hours to individually tutor students on debugging programs, recognizing logical and syntax errors, and properly planning and organizing projects.

The Depository Trust & Clearing Corporation

Jersey City, NJ

Infrastructure Engineering 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.

SKILLS

Languages: Java, Python, C, Bash, Ruby, OCaml, x86 Assembly, SQL, L^AT_EX, HTML, CSS, JavaScript.

Frameworks: Flask, SQLAlchemy, Pytest, TensorFlow, Pandas, NumPy, Spring Boot, JUnit

Tools: Docker, Kubernetes, Git, Jira. **AWS:** ElasticBeanstalk, EC2, Lambda, RDS, ECS.

PERSONAL PROJECTS

Moody - Hackathon Project

Apr. 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 2018

- 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 GPA's have been calculated since creation.

Find these projects and more on my [GitHub](#)...

EXTRACURRICULARS

Bitcamp - University of Maryland's Flagship Hackathon

College Park, MD

Director of Internal Sponsorship and Finance

Jun. 2019 - Present

- Leading organizing team responsible for fundraising and finance for Bitcamp 2021 and serving as the primary point of contact for UMD affiliated corporate partners.

FIRE Capital One Machine Learning Lab

College Park, MD

Research Fellow

Jan. 2019 - Dec. 2019

- 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, College Park

President's Scholarship, College of Computer and Mathematical Sciences Dean's List

Dec. 2018 - Present

NYU Tandon School of Engineering: InnoVention Competition

Member of semi-finalist team *Clarissa.ai*, received \$5k in initial funding

May 2020