Victoria Kubyshko

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https://vkubyshko.github.io/CV-Website/

EDUCATION

Carnegie Mellon University, Pittsburgh, PA — Aug 2016-May 2020
Bachelor of Science – Double Major in Mathematical Studies and Physics, GPA: 3.8

Relevant Courses: Introduction to Machine Learning, Principles of Imperative Computation, Fundamentals of Programming and Computer Science, Combinatorics, Discrete Math, Linear Algebra

WORK AND RESEARCH EXPERIENCE

Capital One, McLean, VA
Associate Software Engineer — Feb 2021-Present
- Maintained and built new tools to ensure resource-compliance in AWS services

Associate Software Engineer in Training (CODA) — Aug 2020-Feb 2021
- Six-month immersive software-engineering training program
- Developed back-end web applications and APIs in Node.js, using relational and non-relational databases
- Developed dynamic front-end applications using Angular with a focus on improving user experience
- Built back-end web applications in Golang as part of a self-study project

Research Assistant — May 2019-Sept 2019
Dr. Diana Parno, Carnegie Mellon University
- Used ROOT, a scientific software package in C++, to analyze data collected in the KATRIN experiment
- Wrote scripts to quantify how changing the region of interest would affect experimental mass of neutrino

Systems Analyst Intern — May 2018 – Aug 2018
Fidelity Investments, Westlake, TX
- Designed and implemented cost control tools in Python for Fidelity's cloud services, reduced costs by 20%
- Built tool to ensure tag-compliance in AWS within the business unit to reduce costs
- Created Angular web app to automate feedback for teams on their path to the Cloud

Research Assistant — Jan 2018 – Dec 2018
Dr. Matthew Walker, Carnegie Mellon University
- Modeled the proper motion in right ascension and declination of stars from M54 and Sagittarius to quantify the effects of dark matter
- Developed an optimization model in Python for galaxy clusters using the Gaia data release

SPECIAL PROJECTS

C0VM Implementation — April 2019
- Implemented a C0 virtual machine that interprets bytecode using a stack implementation in C
- Handles functions, variables, errors and assertions, and memory allocation

"NASA's Space Explorer" Term Project — Dec 2017
- Designed and programmed an interactive Kinect game in Python
- Used object-oriented programming to connect real-time data from Kinect sensors to player's movements

Link: https://youtu.be/IACRHurZrog

"Yelp You Out" HackCMU — Sept 2017
- Worked on a small team to create a POC that built off the Yelp API to create a multi-user platform
- Wrote code for optimization of multiple users' preferences using Python

Link: https://youtu.be/XYJ6WIQjGvA

SKILLS

Programming Languages: Python, C, C++, HTML, CSS, JavaScript, Java, SQL, Golang
Frameworks: Node.js, Spring Boot, AWS, Postgres, Mongo, Angular, Splunk
Language: Russian, Spanish