KONSTANTIN KOVALCHUK

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EDUCATION

University of Michigan — *Ann Arbor, MI*

B.S.E Honors in Computer Science — *September 2018 - Present*

GPA: 3.7 — Expected Graduation Date: May, 2022

Completed Coursework: Distributed Systems(Golang), Operating Systems(C++), Web Systems(Python, JavaScript), Data Structures and Algorithms (C/C++), Computer Organisation, Software Engineering.

Currently taking: Computer Networks, Parallel Computing, Mobile Development.

EXPERIENCE

Filos — *Ann Arbor, Michigan*

Founding Engineer — *June 2021 - Present*

- Developed a Node.js API server to retrieve market data from public iexCloud API with DynamoDB caching to reduce outgoing requests by over 65% and provide faster responses to mobile clients and the main server.

- Architected, built, and deployed scalable main business logic server using FastAPI to process thousands of requests from the client application and to use Amazon RDS database storage executing internal operations.

- Worked with a team to design and code the phone application using TypeScript allowing users to enter or create challenges and compete with their friends or strangers on the stock market for a monetary prize.

Barclays — *Whippany, New Jersey*

Technology Intern — *June 2021 - August 2021*

- Learned the architecture and programming principles of Hadoop, Spark, Hive, and Kafka used in the bank to support and debug bank's backend running jobs.

- Monitored the ongoing operations through the IBM Workload Scheduler to report upcoming errors on company's Cloudera platform to the support group and provide quicker failure resolution.

- Created Hive queries necessary to build dashboards and analysed the data along with Hadoop job source code to pinpoint the cause reoccurring issues in the job chain execution.

Information and Technology Services — *Ann Arbor, Michigan*

Software Engineering Intern — *May 2020 - August 2020*

- Designed and Implemented Ansible Roles, Playbooks, and Inventories automating provisioning and deployment for over 12 machines for WiFi Testing System using Vagrant environments

- Executed and debugged installation for the ELK stack, Perfsonar network testing software, and RabbitMQ on Ubuntu Raspberry Pi testpoints and Centos Central Processing server

- Set up several working message pipelines to take our network-scan and Perfsonar testing data through Logstash filters and display it in Kibana creating a convenient way to analyze WiFi performance and to query database

ISUZU MDP Powertrain Team — *Ann Arbor, Michigan*

Software Engineer — *January 2020 - December 2020*

- Developed and incorporated Machine Learning models (ELM, SVM, etc) into ISUZU Matlab simulation toolbox allowing making accurate predictions up to 0.92 without expensive real testing

- Self-taught working with Python Scikit libraries and further developed other Python ML related skills in a Jupyter notebook environment.

- Collaborated with a Multidisciplinary team to Research the best emissions simulation models and implemented the solution lowering costs for the commercial testing by over 70%.