Vitalii Kovtounenko

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Summary

Highly motivated Purdue University – West Lafayette Computer Science graduate. My experience includes back-end development, web development, and basic knowledge of Cloud Computing. Familiar with Scrum; an agile development methodology. Very dedicated, goal-oriented, and a great team player. Passionate about technology, innovation and entrepreneurship and looking forward to expanding my horizon, developing meaningful applications, and learning new skills in software engineering.

Education

Purdue University, Bachelor of Science in Computer Science – West Lafayette, IN, USA ***05/2021***

- **Concentration: Software Engineering** ***GPA: 86***
- **Entrepreneurship and Innovation certificate**

Prairie State College, Associate of Science – Chicago Heights, IL, USA ***05/2018***

Skills

Technical: Java, C/C++, Python

- **Familiar with:** AWS, Docker, Kubernetes, Unix/Linux, HTML, CSS, JavaScript, Node.js, React.js, MySQL, Scrum, Microservices architecture

Languages: Fluency in English, Hebrew, and Russian

Experience

HopScotch (Group project): ***01/2021 - 05/2021***

- Created a web application that centralized all aspects of trip planning including flights, hotels, attractions and dining
- Compiled many third-party services into one search
- Implemented **RESTful API** using node.js and used **MySQL** database to take advantage of intertwined relations in data
- Worked with **React** on the client side which allowed easy customization of UI

Cloud services (Individual project): ***04/2021 - 05/2021***

- Constructed storage, compression and web microservices using **docker** and **python**
- Achieved communication between microservices by using **RESTful queries**
- Managed containerized **microservices** using **Kubernetes**

Decision Tree Classifier (Individual project): ***09/2020 - 10/2020***

- Employed an ID3 algorithm in **Python** to predict who will survive and die in the Titanic dataset
- Incorporated k-fold cross validation, minimum sample split size, maximum depth, and post pruning to reduce overfitting and generalize better for unseen data
- Achieved 86% prediction accuracy by defining the maximum depth of the decision tree

Web Server (Individual project): ***04/2020 - 05/2020***

- Created a **multithreaded HTTPS webserver** with three **concurrency** modes: fork, thread, and pool of **threads** using **C++**
- Services **GET requests,** allows web-browsable directories and maintains server logs

Other Experience

Equipment Center/Entry Control - Purdue Recreational and Wellness Center ***05/2019 - 05/2021***

- Primary contact for patrons entering the facility or renting equipment

Security Supervisor – Waldorf Astoria Hotel, Jerusalem ***09/2014 - 07/2016***

- Provided security for hotel and guests, ensuring guests wellbeing and protecting against terror attacks and fires

Military – Israel Defense Forces (IDF), Sergeant ***08/2011 - 08/2014***

- Served in the Combat Engineering as company commander's personal radio operator