

# Vitalii Kovtounenko



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[vitko-swe.github.io/web-portfolio](https://vitko-swe.github.io/web-portfolio)

## 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

<b>Purdue University, Bachelor of Science in Computer Science – West Lafayette, IN</b>	05/2021
<ul style="list-style-type: none"><li>• <b>Concentration: Software Engineering</b></li><li>• <b>Entrepreneurship and Innovation certificate</b></li></ul>	GPA: 3.31/4.0
<b>Prairie State College, Associate of Science – Chicago Heights, IL</b>	05/2018
	GPA: 3.94/4.0

## 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

## Projects

<b>HopScotch (group):</b>	01/2021 - 05/2021
<ul style="list-style-type: none"><li>• Created a web application that centralized all aspects of trip planning including flights, hotels, attractions and dining</li><li>• Compiled many third-party services into one search</li><li>• Implemented RESTful API using node.js and used MySQL database to take advantage of intertwined relations in data</li><li>• Worked with React on the client side which allowed easy customization of UI</li></ul>	
<b>Cloud services (Individual)</b>	04/2021 - 05/2021
<ul style="list-style-type: none"><li>• Constructed storage, compression and web microservices using docker and python</li><li>• Achieved communication between microservices by using RESTful queries</li><li>• Managed containerized microservices using Kubernetes</li></ul>	
<b>Decision Tree Classifier (Individual):</b>	09/2020 – 10/2020
<ul style="list-style-type: none"><li>• Employed an ID3 algorithm in Python to predict who will survive and die in the Titanic dataset</li><li>• Incorporated k-fold cross validation, minimum sample split size, maximum depth, and post pruning to reduce overfitting and generalize better for unseen data</li><li>• Achieved 86% prediction accuracy by defining the maximum depth of the decision tree</li></ul>	
<b>Web Server (Individual):</b>	04/2020 – 05/2020
<ul style="list-style-type: none"><li>• Created a multithreaded HTTPS webserver with three concurrency modes: fork, thread, and pool of threads using C++</li><li>• Services GET requests, allows web-browsable directories and maintains server logs</li></ul>	

## Other Experience

<b>Equipment Center/Entry Control - Purdue Recreational and Wellness Center</b>	05/2019 - 05/2021
<ul style="list-style-type: none"><li>• Primary contact for patrons entering the facility or renting equipment</li></ul>	
<b>Security Supervisor – Waldorf Astoria Hotel, Jerusalem</b>	09/2014 - 07/2016
<ul style="list-style-type: none"><li>• Provided security for hotel and guests, ensuring guests wellbeing and protecting against terror attacks and fires</li></ul>	
<b>Military – Israel Defense Forces (IDF), Sergeant</b>	08/2011 - 08/2014
<ul style="list-style-type: none"><li>• Served in the infantry as an Explosive Ordnance Disposal specialist</li></ul>	