**Nicholas Konovalenko**

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Midland, MI 48642 989-225-4229

**EDUCATION:**

Bachelor of Engineering in Computer Science May 2022

University of Michigan - College of Engineering, Ann Arbor, MI

International Baccalaureate Diploma May 2018

Herbert Henry Dow High School, Midland, MI

GPA: 3.9 / 4.0

**RELATED EXPERIENCE:**

Web Developer Intern - Michigan Chess Association September 2017 - September 2018

* Remodeled website to be user-friendly; viewable at www.michess.org
* Update website with information and results of events
* Added a JavaScript applet that calculates a player’s rating based on inputs

A/V Team Volunteer - FIRST Robotics, Midland, MI November 2016 - April 2018

* Managed cameras and speakers for livestream of event
* Conducted livestream and audio troubleshooting

Founder/Instructor - Python Programing Club, Midland, MI October 2016 - May 2018

* Taught local middle school students Python basics and programming logic

**RELEVANT COURSEWORK:**

EECS 280 - Programming and Data Structures May 2019

* Learn about memory abstract data type containers, and rules of memory safety
* Use dynamic memory management in C++ to implement testing frameworks for debugging
* Use derived classes, inheritance, and polymorphism to create a euchre game with a simple AI player
* Overload operators for mathematic calculations and comparisons of abstract data types

EECS 203 - Discrete Mathematics May 2019

* Understand discrete structures such as sets, partial orders, trees, and graphs
* Understand propositional and predicate logic, quantified formulae, and logical deductions
* Apply principles of induction to better understand recursive functions
* Use set theory, probability, and combinatorics to analyze the efficiency of algorithms

ENGR 151 - Accelerated Intro to Computing and Programming December 2018

* Understand C++, object-oriented programming, and data visualization with MATLAB
* Use a k-means machine learning algorithm to categorize car manufacturers based on engine specifications
* Use pointers to pass data to functions to protect private variables from being wrongfully modified
* Use vectorization of code in MATLAB to greatly increase efficiency of data iteration

A+ Computer Management May 2018

* Understand trouble shooting Windows 7/8.1/10, OS X, and Linux issues
* Understand trouble shooting software, hardware, and networking issues
* Completed labs to replace RAM, CPU, GPU, and hard drives in desktop computers
* Completed labs to set up partitions and install multiple operating systems for dual-booting

**TECHNICAL SKILLS:**

Languages: C++, MATLAB, Java, HTML, CSS

Software: Gedit, Visual Studio, CLion, Sublime Text, CPU-Z

Operating Systems: Windows 7/8.1/10, Ubuntu Windows subsystem, Redhat Linux

Foreign Languages: Fluent Russian, Fluent French

**ACTIVITIES AND ACADEMIC AWARDS:**

Security Core Team Member of Michigan Hackers September 2018 - Present

Member of Michigan Chess Association September 2012 - Present

Member of University of Michigan Chess Team September 2018 - Present

Recipient of Frankenmuth Insurance Children of Employees Scholarship June 2018

AP Scholar with Distinction May 2018

Euclid’s Mathematics Contest School Champion April 2018