

Nikoleta Koleva

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SKILLS

Languages: C++, C, Python, C#, JavaScript, HTML/CSS, SQL, VHDL, Arduino
Frameworks: React, Redux, Node, .Net, Bootstrap, Git
Embedded: Quartus II, Cadence IC Design, LogicWorks, Raspberry Pi, Keysight Oscilloscope
Database: Oracle, SQL Server, Hadoop, Tableau, PowerBI, Google Analytics
Other: Agile Development, JIRA, Confluence, Project Management

EXPERIENCE

RPISEC Member: RPI – Troy, NY – September 2018 to *Present*

- Participated in computer security Capture the Flag (CTF) student challenges, primarily focusing on Web & Mobile exploitation, Steganography, Cryptography, and Binary Analysis
- Finished student-run semester-long CTF within top 40% in Spring 2018
- Utilized Kali Linux to recover deleted files from hard-drives that have been severely-to-moderately damaged for team project
- Currently implementing Arduino/Raspberry PI and Kali Linux tool to perform penetration testing on WiFi networks and Bluetooth devices, seeking vulnerabilities for spoofing

Software Engineering Intern: UBS – Weehawken, NJ – June 2019 to August 2019

- Winner of UBS Summer Intern Challenge 2019 for researching and testing multi-language tool to detect red flags and non-compliant communications with flagged instances on the cloud, using Hadoop Clusters, and Azure
- Implemented web application using C#, .NET, jQuery, JavaScript, and Visual Studio, dealing with calculations and early termination fees within the Investment Bank
- Communicated with business-side and resolved long-standing critical issues, such as dynamic and accurate multiple language translation, using C# pattern algorithms
- Utilized agile development cycle, using Jira, Confluence, and Git, and participated in daily international stand-up meetings and feature releases

Software Engineering Intern: UBS – Weehawken, NJ – June 2018 to August 2018

- UI development, using JavaScript, React, and Redux, including finding and debugging defects, as well as building features on web application
- Back-end development, using Java, for communication with Oracle databases and UI integration
- Researched and implemented SchemaSpy to connect with Oracle database and display schema and entity-relationship diagram visualizations, through command-line arguments
- Integrated ESLint linting tool for ensuring code follows same conventions throughout code-base is more easily navigable
- Built randomizing networking application as lead-developer on intern project and presented in front of executive directors

EDUCATION

B.S in Computer & Systems Engineering: Rensselaer Polytechnic Institute (RPI)

Troy, NY – Dec 2020

- Relevant Coursework: Data Structures & Algorithms, Computer Hardware Design, VLSI Design, Computer Architecture, Networks & Operating Systems, Computer Components and Operations, Signals & Systems
- Involvement: RPISEC & IntroSEC, Rensselaer Electric Vehicle, RPI Tae Kwon Do, Slavic Student Association

NOTABLE RECENT PROJECTS

[UART RAM Transmission with FPGA](#)

[3-input Logic Gate Design and Transient Response](#)

[Communication Red Flag System for UBS](#)

[Portfolio Git Page](#)

Quartus II

Cadence IC, Virtuoso

C#/.NET, Hadoop

HTML/CSS, JavaScript