

# Jacob Babik

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## SUMMARY

Computer Science Senior with experience in object orientated languages, information assurance, and project management pursuing a cybersecurity or software engineering internship for the summer of 2020.

## EDUCATION

**Bachelor of Science in Computer Science (Cybersecurity)**

Graduating December 2020

Arizona State University, Tempe, AZ

3.63 GPA

## SKILLS

**Programming:** C, C++, C#, Java, Python, HTML/CSS, MATLAB, Scheme, Prolog

**Development tools:** Visual Studio, GCC/G++, GDB debugger, Unix, Wireshark, Eclipse, Git, Linux OS

**Spanish Language:** written, spoken

**Other:** Microsoft Excel/PowerPoint/Word, TCP/IP concepts, Application security

## ACADEMIC PROJECTS

**Portfolio Website ([www.jacobbabik.com](http://www.jacobbabik.com))**

Winter 2019/2020

- Developed skills necessary in HTML and CSS in order to design an online personal portfolio
- Configured DNS hosting and SSL certificate to publish the website online

**ASU, Dijkstra's Shortest Path Final Project**

Spring 2019

- Assembled Dijkstra's Shortest Path algorithm in C++ using a weighted, directed graph
- Implemented min-heap data structure to use as a priority queue
- Ensured a required running time of  $O((|E|+|V|)\log|V|)$

**Digital Homework Planner (Personal)**

Spring 2019

- Programmed a digital planner in Java to store data on homework assignments and projects
- Designed a user-friendly graphical user interface using Eclipse and JavaFX

**ASU, Barrett Honors Project**

Fall 2018

- Researched .NET Framework and studied C# coding conventions in order to develop a web browser
- Incorporated five built-in features and an interactive game into the browser
- Utilized ASP.NET and WCF .svc services to host the features and game

**ASU, Autonomous Driving Robot**

Fall 2017

- Collaborated in a team of three to design, build, and code an autonomous driving robot
- Utilized motion, color, and distance sensors to guide the robot through a simulated roadway
- Led the development of the MATLAB autonomous driving code base

## WORK EXPERIENCE

**Arizona State University: Undergraduate Teaching Assistant (Information Assurance)**

Jan 2020 - Present

- Provide guidance and feedback to help students successfully complete coursework
- Collaborate with other TAs to produce supplemental learning materials

**Dick's Sporting Goods: Sales Associate**

Jan 2019 - Jan 2020

- Coordinated with workforce and interact with customers in order to provide excellent customer service
- Maintained perfect shift attendance

**Greenfield Lakes Golf Course: Pro Shop Attendant**

Aug 2015 – Nov 2018

- Implemented a new computer system helping to minimize downtime
- Managed a team of eight people ensuring that proper operating procedures were followed
- Trained new and existing employees on computer systems and operating procedures

## ACTIVITIES

**Software Developers Association (SoDa)**

Jan 2019 – Present

- Advance software development knowledge and skills by attending lectures and participating in coding challenges