

Jacob Babik

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SUMMARY

Computer Science Junior with experience in C/C++/C#, Java, information assurance, and project management pursuing an internship in software engineering for the summer of 2020.

EDUCATION

Bachelor of Science in Computer Science

Barrett, The Honors College, at Arizona State University, Tempe, AZ

Graduating December 2020

3.55 GPA

SKILLS

Programming: C, C++, C#, Java, MATLAB, Scheme, Prolog

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

Spanish Language: written, spoken

Other: Microsoft Excel, PowerPoint, Word

ACADEMIC PROJECTS

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

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

Dick's Sporting Goods, Gilbert, AZ: Sales Associate

Jan 2019 – Present

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

Greenfield Lakes Golf Course, Gilbert, AZ: 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
- Created weekly shift schedules verifying that there was sufficient shift coverage
- 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

Volunteer Work at Castle Canyon Assisted Living

Jun 2015 – Present

- Assist five residents with debilitating illnesses with the aim of raising their quality of life