

Ashkan Vafaei

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Education

Bachelor of Science, Electrical and Computer Engineering

May 2019

The University of Texas at Austin

Cumulative GPA: 3.72/4.00

Related Coursework: Software Design and Implementation I & II (C, C++, Java data structures) | Embedded Systems | Circuit Theory | Linear Systems and Signals | Discrete Mathematics | Engineering Honors Differential Equations

Experience

Volunteer Assistant, Texas Museum of Science and Technology

8/16 – Present

Software Development – [<https://github.com/ashkanvafaei/Volunteer-Log>]

- Creation of Windows desktop application to track volunteer member data using C++
- Designed algorithm to programmatically store user data to Excel spreadsheets and provide statistical feedback
- Ensured compatibility across diverse systems through intensive debugging and utilization of customized APIs
- Implemented graphical user interface for intuitive operation and seamless functionality

Docent Work

- Engaged museum clients with hands-on scientific exhibits and responded to questions
- Improved interpersonal and communication skills by working during peak operating hours

Embedded Systems Game Design Project – [<https://github.com/ashkanvafaei/Game>]

1/16 – 5/16

- Development of Pac-Man Classic on a real-time embedded system using a microcontroller and LCD display
- Designed intelligent computer-controlled characters to produce a challenging player experience
- Rapidly prototyped and debugged new capabilities including movement logic, sound effects, and game difficulty
- Used C and assembly language to maximize performance allowing for stable framerates and low memory usage
- Rated best in class section out of over 40 other designs

Web Design – [www.ashkanvafaei.com]

12/16 – Present

- Custom designed a personal webpage using HTML and CSS
- Included animated layout elements for a responsive user experience
- Wrote maintainable code for intuitive modification and ensured compatibility across different web browsers

Skills

Proficient in Java, C, C++, and ARM assembly language

Experience with MATLAB, Linux, HTML, CSS, and JUnit testing

Software development on Eclipse, Microsoft Visual Studios, and Keil µVision

Conversational Farsi

Proficient in Microsoft Word, Excel, and PowerPoint

Strong analytical skills and detail oriented

Accomplishments

Recipient, University of Texas at Austin Presidential Achievement Scholarship, 2015-2017

Recipient, Iranian Scholarship Foundation Undergraduate Scholarship, 2015-2017

President/Founder, Anderson High School Table Tennis Club, 2013-2015

Volunteer, Capital Area Food Bank, 2016-Present