

David Silverstone

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EDUCATION

University of Southern California, Los Angeles, CA

Bachelor of Science, Computer Engineering and Computer Science, with minor in Physics

Class of May 2019

Major GPA 4.0

SAMPLE COURSEWORK

Professional C++, Compiler Development, Data Structures, Algorithms, Machine Learning, Computer Systems Organization, Parallel and Distributed Computation, Operating Systems, Mechanics, Electromagnetism, Quantum Mechanics, Probability and Statistics for Electrical and Computer Engineers, CPU Design, System on Chip (SoC) Design

TECHNICAL SKILLS

Programming Languages: C/C++, JavaScript, C#, Java, Verilog, Python, MATLAB, Fortran, Assembly, Q#

Environments: Visual Studio, IntelliJ IDEA, Xilinx ISE, Postman, GitHub, OpenCV, TestNG, Mockito, Docker, Jenkins, Fisheye, Node.JS, ModelSim, Linux, Windows, MacOS

Other Skills: Algorithm Design | Unit Testing | Software Profiling | Debugging | Functional Programming | Embedded Systems | Parallel Programming | State Machine Design | Probabilistic Modeling | FPGA Hardware Implementation | Computer Vision

EXPERIENCE

Microsoft Corporation, Cloud + AI, Azure Growth and Ecosystems

Redmond, WA

Software Engineering Intern

Summer 2018

- Project validating signed legal agreements as correct, unmodified and fully signed
- Created AI agent to validate legal agreement licensing terms, signatures, dates and absence of modifications
- Leveraged computer vision, OCR and text processing technologies to reduce cost of agreement validation by 99%

USC Viterbi School of Engineering, Department of Computer Science

Los Angeles, CA

Undergraduate Teaching Assistant (TA), Algorithms and the Theory of Computing

August 2017 – Present

- Holds weekly office hours and answers student questions online
- Teaches fundamentals of dynamic programming, greedy algorithms, divide & conquer, P vs. NP and computability
- Grades programming assignments and exams

International Business Machines, Watson Division

Costa Mesa, CA

Software Development Intern, Watson Campaign Automation platform

Summer 2017

- Deployed transition to an IBM common UI platform to integrate with Watson Cognitive Engage services
- Participated in Scrum grooming sessions, code reviews, and continuous integration testing in Agile team
- Accomplished several performance engineering improvements and bug fixes as an independent initiative

MEMBERSHIPS

Alpha Lambda Delta Honors Society, USC Chapter

2016 – Present

Institute of Electrical and Electronics Engineers (IEEE), USC Chapter

2016 – Present

Association for Computing Machinery (ACM), USC Chapter

2017 – Present

USC LavaLab Start-Up Incubator

Spring 2018

HACKATHONS

DubHacks 2016

University of Washington, Seattle, WA.

IBM Blue|Hack 2017

Costa Mesa, CA.

CodeRed Curiosity 2016

University of Houston, Houston, TX.

Microsoft OneWeek 2018

Redmond, WA.

CalHacks 2016

University of California, Berkeley, CA.

LA Hacks 2017

University of Calif., Los Angeles, CA.