David Paul Silverstone

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Education

University of Southern California, Los Angeles, CA — Class of May 2019
Bachelor of Science, Computer Engineering and Computer Science, with minor in Physics — Major GPA 4.0

Coursework

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

Technical Skills

Languages: C++ | JavaScript | C# | Java | C | Verilog | Python | MATLAB | Fortran | Assembly | Q#

Environments: Visual Studio | IntelliJ IDEA | Xilinx ISE | Postman | Git | TestNG | Mockito | Docker | Jenkins CI Node.JS | ModelSim | Linux | Windows | MacOS | LLVM | Microsoft Azure

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

Professional Experience

Microsoft Corporation, Cloud + AI Group, 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) — Aug. 2017 – Present
Discrete Methods in Computer Science; Algorithms and the Theory of Computing

- Teaching dynamic programming, greedy algorithms, divide & conquer, P vs. NP and computability
- Holding weekly office hours to assist students understand challenging material
- Grading homework, programming assignments, and exams

International Business Machines, Watson Cognitive Engage — **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 optimizations and bug fixes as independent initiatives

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
CodeRed Curiosity 2016 University of Houston, Houston, TX
CalHacks 2016 University of California, Berkeley, CA
LA Hacks 2017 University of California, Los Angeles, CA
IBM Blue|Hack 2017 Costa Mesa, CA
Microsoft OneWeek 2018 Redmond, WA