David Paul Silverstone

dsilvers@usc.edu · (678) 772-7383 · https://dsilv.io · ⬡: LionOfJewdah · in: david-silverstone

Education 🎓

University of Southern California (USC), Los Angeles, CA   Class of May 2019
Bachelor of Science, Computer Engineering and Computer Science; minor in Physics   Major GPA 4.0

Coursework 👨‍💻

Computer Systems Organization, CPU Design, Professional C++, Compiler Optimizations, System-on-Chip Design, Machine Learning, Operating Systems, Parallel and Distributed Computation, Data Structures, Algorithms, Quantum Mechanics, Electricity and Magnetism, 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 Services | Debugging
                        Functional Programming | Embedded Systems | Parallel Programming | Computer Vision
                        State Machine Design | Probabilistic Modeling | FPGA Design | Iterative Methods

Professional 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 agreement licensing terms, signatures, dates and absence of modifications
- Leveraged computer vision, OCR and text processing technology to reduce agreement validation costs by 99%

USC Viterbi School of Engineering, Department of Computer Science 📋   Los Angeles, CA
Undergraduate Teaching Assistant (TA)   Aug. 2017 – Present
Discrete Methods of 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   Summer 2017
- Deployed transition to 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

iD Tech Camps, iD Mini, Minecraft Game Design ⛏   Palo Alto, CA
Instructor and Camp Counselor   Summer 2016
- Engaged campers in collaborative learning on fundamentals of digital logic, programming and game design
- Leveraged Redstone electrical simulations, command blocks and basic modding technologies to educate

Fred Hutchinson Cancer Research Center, Clinical Research Division 🧑‍🔬   Seattle, WA
Cancer Research Lab Intern   Sep. 2014 – Jun. 2015
- Conducted experiments and research on prostate cancer tissue response to various drugs
- Performed wet and dry lab procedures, data analysis and interpretation
- Gained familiarity reading research publications in medical journals

David Paul Silverstone

dsilvers@usc.edu · (678) 772-7383 · https://dsilv.io · : LionOfJewdah · : david-silverstone

Awards and Recognition

USC Viterbi Merit Scholarship	2016 – 2019
Viterbi School of Engineering Dean's List	Spring 2016 – Present
IB Diploma Laureate and National AP Scholar	June 2015

Leadership

USC Science Outreach, University of Southern California — Los Angeles, CA
Experiment Manager and Executive Board Member — Aug. 2015 – Jun. 2017
- Designed and presented experiments to engage local students in hands-on science
- Taught experiments to USC student volunteers to conduct with local elementary school pupils
- Authored science journals for students to record experimental hypotheses and observations
- Managed budgets and supply inventory to ensure experiment quality
- Impacted 250+ Los Angeles 2nd graders defining their conceptions of science as a subject and career

Klein Institute for Undergraduate Engineering Life, USC Viterbi School of Engineering — Los Angeles, CA
Engineering Week 2016 Planning Committee — Sep. 2015 – Feb. 2016
- Planned events showcasing and celebrating engineering to USC's general student population
- Generated social media excitement for E-Week events
- Affected change among Viterbi students embracing our culture as dedicated problem-solvers

Memberships

USC LavaLab Start-Up Incubator	Spring 2018
Association for Computing Machinery (ACM), USC Chapter	2017 – Present
Institute of Electrical and Electronics Engineers (IEEE), USC Chapter	2016 – Present
Alpha Lambda Delta Honors Society, USC Chapter	2016 – Present

Hackathons

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