

# Sam Lees

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I'm eager to solve tough problems that don't have a right answer, and I love shipping software that actually makes people's lives better. My professional experience is below, or check out my website at sslees.com for a more personal introduction.

## EDUCATION

### California Polytechnic State University – San Luis Obispo

Computer Engineering, B.S.

September 2013 – June 2017

- 3.65 GPA

## EXPERIENCE

### Workday

Boulder, CO

Sr Software Development Engineer

November 2022 – present

- Developing internal REST APIs for a document-template-editor frontend
- Architecting Spring services for a dynamic-PDF-generation backend
- Collaborating with teams across organizations on API requirements
- Documenting APIs in Miro and Confluence
- Scrum/Agile: Practicing accountability and managing realistic units of work

Software Development Engineer I, II, and III

July 2017 – October 2022

- Designed and implemented security APIs for Workday's file-sharing offering
- Automated APIs with JUnit and Workday's proprietary XpressO framework
- Benchmarked and stress tested APIs with Apache Bench and Python

Associate Application Developer Intern

June – September 2016

- Developed features and automation for HR Education & Government customers using XpressO

### The Aerospace Corporation

Vandenberg Air Force Base, CA

Technical Staff

July – December 2015

- Built a GUI app (Java Swing) to audit files changed on remote servers
- Wrote scripts for recurring SQL queries, set up LVM for file storage, and configured lsyncd for real-time directory mirroring

### Onsite Computers and Design

Santa Maria, CA

Web Designer & Technician

December 2013 – January 2016

- Managed web and email hosting for local business clients
- Built and maintained websites in WordPress, Joomla, and HTML
- Diagnosed and repaired computer hardware and software issues
- Performed hardware and software upgrades

### Hardy Diagnostics

Santa Maria, CA

Manufacturing Intern

June – September 2013

- Designed, built, and programmed a nitrogen desiccator for storing petri dishes of anaerobic culture media
- Wrote GMP-compliant work instructions for producing and packaging various microbiology products

### Melfred Borzall

Santa Maria, CA

Engineering Intern

June – August 2012

- Created models and drawings of large-scale underground directional drill bits using CAD software (SolidWorks)
- Analyzed and reported on part design and cost effectiveness

## SKILLS

### Programming Languages

- Python (for competitions)
- Java (for production)
- C (for microcontrollers)
- Bash and Batch scripting

### Software and Technology

- Caddy web server
- Unicorn WSGI server
- Flask web framework
- Hugo website framework
- Tailwind CSS and daisyUI
- Godot game engine
- MySQL and MariaDB

### Hardware

- Raspberry Pi and Orange Pi
- Arduino and Pi Pico
- Pimoroni Picosystem

### Operating Systems

- macOS (preferred)
- Windows and WSL
- Debian and Ubuntu

## INTERESTS

### Hobbies

- 3D printing
- Rock climbing

### Programming

- Advent of Code
- Ludum Dare
- My website, sslees.com
- My own compiler and programming language

### Robotics

- 3pi robot (maze solving)
- FIRST Robotics

### Games

- Factorio
- Crash Bandicoot
- Tetris

### Puzzles

- Rubik's cubes
- Eternity II