

Shaoxuan Yuan

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Relevant Links: [LinkedIn](#) | [GitHub](#) | [Blog](#)

Education

University of California, Irvine

June 2025

- *B.S. Computer Science and Engineering*
- GPA: 3.79/4.00 (Deans Honor List for 3 quarters)
- Courses: Linear Algebra, OOP, DSA, Discrete Math, Operating System, Compilers and Interpreters

Skills

- **Programming Languages:** Python | C | Shell script | C++ | JavaScript | HTML | CSS | SQL
- **Technologies:** Git/GitHub | Flask | React | Docker/Docker-compose | GitHub Actions | SQLite

Experience

[Google Summer of Code 2022](#) with [Git](#)

Remote

Open-source contributor at Git

May 2022 – September 2022

- Focused on bringing more sparse-index integrations to Git commands to improve compatibility and speed.
- Engineered and tested new logics of moving/removing/grepping files/directories to be compatible with a repository using git-sparse-checkout with experimental sparse-index turned on.
- Achieved over 90% execution time reduction for each command (git-mv, git-rm, git-grep) on average.
- Pushed over 30 patches with over 1100+ lines of C code and Bash test suites to Git core codebase.

Pony.ai

Guangzhou, China

QA/Software Engineer Intern

August 2021 – November 2021

- Developed a React-based single-page app that automates daily driver appointments for QA department using Flask as backend and SQLite as database.
- Implemented a Slack Bolt plugin that served as a crawler on QA department's Jira system to broadcast daily vehicle operation data in Slack channel. Saved 20+ manual checks against the system per day.
- Coordinated with QA colleagues to debug production Python scripts. Helped 5+ colleagues with 20+ issues.

[Open-Source Promotion Plan 2021](#) with [Casbin](#)

Remote

Open-source contributor at Casbin

May 2021 – October 2021

- Maintained the Python version of Casbin ([PyCasbin](#)) to get timely updates to match its Golang version.
- Created and maintained GitHub Actions CI/CD that runs on every push/pull-request with automatic Python unittest execution and lint check to catch stylistic errors for 3 repositories within Casbin organization.
- Initiated over 40 Pull Requests and resolved around 30 issues. Pushed over 3 major releases under different repositories within Casbin organization.

Projects

[casdoor/casdoor-python-sdk](#)

- Casdoor is a GUI-based centralized authentication / Single-Sign-On platform based on OAuth 2.0 / OIDC.
- Created and maintained a Python SDK to connect any Python application to the Casdoor platform through OAuth 2.0 protocol, coded in Python.
- This library now has 7 stars and 9 releases.

[casdoor/odoo-casdoor-oauth](#)

- Odoo is an open-source ERP and CRM that hosts a suite of open-source business apps.
- Created odoo-casdoor-oauth as an Odoo-compatible app, coded in Python. This app is used to bring Casdoor's Single-Sign-On service into the Odoo platform.
- This app is [published](#) in Odoo app store.