Schuyler A. Martin

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Objective: Seeking senior-level software engineering positions. Currently learning Rust. I enjoy building things properly.

Professional Experience

Senior Software Engineer — **Anaconda - OSS Packaging Automation** — **March 2023 - Current**

- Current tech lead of a packaging/OSS automation team and previously led a junior engineer mentoring program.
- Founder and primary maintainer of conda-recipe-manager (CRM) which graduated to the Conda Org in 2025.
  - CRM is known in the Conda Community for its recipe-parsing library, a recipe V0 to V1-format conversion tool, and a tool that automatically updates recipe files to support new software versions.
  - At least 700 open source projects on conda-forge have used CRM to upgrade to the new V1 recipe format.
- Made open source contributions to the rattler-build project, written in Rust which uses the new recipe file format.
- Created an internal GitHub pull-request bot that used Kubernetes, Helm, and ArgoCD to accelerate the package builders. This tool leverages the open source tooling available in conda-recipe-manager.
- Introduced a set of strict Python coding standards for the packaging teams to ensure tested and reliable software.
- Raised the bar for unit, integration, and other automated testing systems. Held a presentation to get other engineers up to speed on modern software testing practices.

SDE II — **Amazon - Camera Firmware & Web** — **May 2020 - January 2023**

- Implemented firmware for the next generation cameras used in the Just Walk Out (Amazon Go) stores.
- Developed reliable tooling to remotely manage and maintain a testing environment (farm) for 25+ IoT devices.
- Ported new features for an internal hardware stress-testing tool for the electrical engineering team.
- Discovered and fixed boot-time circular dependencies in systemd services that caused 50% of boot-ups to fail.
- Interfaced with 3rd party vendors to debug and build critical encryption hardware-provided features.
- Developed an internal website built from Typescript, React, DynamoDB, and serverless AWS technology.

Senior Software Engineer — **Josh AI - Voice Assistant/Control System** — **May 2017 - May 2020**

- Created the 3rd generation device driver architecture, separating control logic from device specific details.
- Invented a system called “Distributed AV” that allows Josh to dynamically route video and music content to hundreds of TVs and speakers in large homes. Rewrote the content search system.

CS Department Teaching Assistant — **Rochester Institute of Technology** — **August 2016 - May 2017**

- Held weekly recitations and office hours for the introductory CS sequence and exam reviews for the C course.

Open Source

See more on GitHub, https://shoyler.com, & Printables

- conda-recipe-manager - Python library that can parse, render, and upgrade conda’s multi-variant recipe build files.
- anaconda-linter - Python tool that scans recipe files for common mistakes and can automatically fix errors.
- gb2048 - Port of the popular 2048 game for the original Game Boy and Game Boy Color.
- ascii13 - C++/OpenCV project that reads in a video file and renders the video into ASCII artwork faster than realtime.
- g0248 & gotris - Ports of 2048 and Tetris implemented in Golang and using the tcell project.

Education

Rochester Institute of Technology — **May 2017** — **Bachelor’s & Master’s**

- **Computer Science BS/MS** with a focus on public speaking, computer graphics, hardware, and computer vision.
- Active mentor of RIT’s Computer Science House (CSH).

SeeGOL: 16-bit OS for x86 (i386) — **Master’s Capstone Project** — **Systems Programming**

- Wrote a 16-bit OS with kernel string and graphics libraries; able to switch to graphical and text modes on the fly.

Knowledgeable In

Python, Open Source Development, Modern C++, C, Rust, Typescript, React, Go, x86 Assembly, HTML, JSON, YAML, Git, Linux, GitHub, Vim, Pytest, MyPy, Pylint, pre-commit, make, GitHub Actions & Workflows, AI, AWS, OpenEmbedded, Yocto, OpenCV, DynamoDB