

Summary

Software engineer with three years of experience in project management, design, and development seeking position in workflow automation technologies.

Skills

Languages

Proficient: C, C++, Java, Python, PyObjC, Ruby, PHP, HTML, CSS, JavaScript, SQL, R, Lua, Bash

Familiar: Rust, Objective-C, Swift, Lisp

Software

Git, Windows, *nix, iOS, Android, Vim, Eclipse, Xcode, AWS EC2/RDS/CloudFront

Education

University of Maine

M.S., Computer Science

Aug. 2022 - Aug. 2024

University of Maine

B.S., Computer Science (GPA: 3.979)

Minor: Mathematics

Aug. 2018 - Aug. 2022

Experience

Engineering Ambassador

University of Maine College of Engineering, Orono, ME

Aug. 2021 - Present

- Lead interactive outreach events and presentations
- Teach software engineering principles to high school and college freshmen students
- Attend leadership training conferences and workshops

Student Research Assistant / Student Programmer

Servant Heart Research Collaborative, Orono, ME

Nov. 2018 - Present

- Build efficient exam preparation applications scalable to 100,000+ simultaneous users
- Scalable cloud architectures designed and implemented using Amazon Web Services
- Apply software engineering principles to guide project and organization management

Student Research Assistant

Privacy Engineering - Regulatory Compliance Research Lab (PERC_Lab), Orono, ME

Nov. 2018 - Present

- Research privacy in IoT, mobile, and web applications by leveraging machine learning
- Design and conduct human subject research studies

Student Administrative Aide

ASAP Media Services, Orono, ME

Oct. 2018 - Sep. 2019

- React, React Native, and Swift used to create responsive websites and mobile applications
- Coordinated interdisciplinary teams in discovering creative solutions to client problems

Projects

Python for Automation

<https://github.com/SKaplanOfficial/PyXA>

Jun. 2022 - Present

- Python interface to scriptable and non-scriptable applications
- Wrapper around several Objective-C frameworks
- Mirrors and extends capabilities of AppleScript through custom classes
- Extensive focus on documentation

Aria

<https://github.com/SKaplanOfficial/Aria>

2019 - Present

- Modular virtual assistant built in Python
- Contextual awareness of on-screen information and system processes
- Identifies trends in usage over time, creates shortcuts to common actions

Geospatial Data Portal

Undergraduate Capstone Project

Aug. 2021 - May 2022

- Geospatial project management platform built on React and Django and delivered via AWS
- Provides a secure execution environment for user-uploaded Python scripts acting on GIS datasets
- Supports organization-level collaboration on GIS projects