Steeve Joseph

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Education

- **University of Central Florida** — Orlando, FL
  Bachelor of Science in Computer Science — *Aug. 2016 – May. 2020*

Experience

- **Leidos** — Orlando, FL
  Software Engineering Intern — *May 2018 - Present*

  Wrote shell script to streamline process of backup/re-image, installation and configuration of internal tooling. Decreased total downtime from 2 hours to 13 minutes.

  Wrote Python scripts to autonomously detect/react to remote processes and broadcasts.

  Helping investigate/build distributed virtualization architecture centered around Docker, AWS.

  Helping design front-end UI as well as functionality for portable clouds and cloud application interfaces.

  Providing support for OneSAF database production, database tool development, and integration & testing of software on target systems.

- **DiSTI Corporation** — Orlando, FL
  Software Engineering Intern — *Sep. 2017 - Apr. 2018*

  Help plan, design, and develop military training simulations.

  Write/edit C# scripts to add functionality to simulations in Unity game engine.

  Troubleshoot proprietary software, product network, and target systems/network.

Skills Summary

- **Languages**: Python (proficient), Java (proficient), C (proficient), Javascript (familiar), C++ (familiar), SQL (familiar), R (familiar)
- **Operating Systems**: Windows (XP/7/8/10), macOS, Linux (Ubuntu/Arch/Kali)
- **Frameworks/Libraries**: ExpressJS, NodeJS, PassportJS, Django/Flask, Bootstrap, jQuery
- **Development Tools**: Vim, Git, Plastic SCM, Unity, Atlassian JIRA (Scrum), LaTeX

Projects

- **Testopian**: Containerized testing framework in Python to perform aggregate portfolio analysis and visualization, on metrics such as sharpe ratio, sortino, volatility, and max drawdown for automated trading algorithms. Metrics tracked over a variety of time periods. Adding support for running Montecarlo simulations and plotting efficient frontiers. Built using Quantopian, Pandas, Numpy, Matplotlib, Seaborn and Docker.
- **PL/0 Compiler**: Compiler for PL/0 programming language, complete with lexical analyzer (scanner/lexer), syntactic analyzer (parser), virtual machine (VM), intermediate (assembly/machine) code generation, and an introspective view of each stage of the compilation process. The scanner can handle a program of 5000 lines, the parser can handle 10,000 tokens and the virtual machine can handle 10,000 instructions. Built in C.
- **Yelp Camp**: RESTful CRUD campground review app, featuring user authentication & authorization. Built with NodeJS, ExpressJS, MongoDB, and PassportJS. Deployed briefly on AWS.
- **Financial Analyzer**: Responsive Python web app that visualizes historical stock market data of a portfolio of companies. Built using Flask, Pandas, and Bokeh.
- **Motion Detector**: Script written with Python, OpenCV, and Pandas that is capable of detecting multiple objects' movement in a frame, and plotting a corresponding Bokeh chart.

20%

- **Current Coursework**: Artificial Intelligence, Robot Vision, Processes for OO Software Development
- **Hackathons**: sudo hackStetson 2017/2018, OTAB Smart City Initiative, KnightHacks 2017, Microsoft Hack Knight
- **Organizations**: ACM, SIG AI @ UCF, UCF Programming Team practice, Orlando Python User Group, Orlando Golang User Group
- **CS Mentorship**: Provide guidance about curriculum, career path, projects, to undergraduate students with the goal of increasing recruitment of and retention of new Computer Science students at the University of Central Florida.