|  | **Aquilla Sherrock**  217.416.6527  acsherrock@gmail.com | **Career Objective**  To gain experience in software engineering to develop a more complete understanding of the concepts, techniques, and applications of computer science on an academic and professional basis.  **Education** **A.S. from Lincoln Land Community College**  * Maintained 3.7 GPA * Started in the engineering program before switching to CS - did not finish my major here, but received a surprise General Studies degree after the switch. * Some robotics/microcontroller programming * OpenGL/graphical development.  **B.S. in Computer Science at the University of Illinois**  * Advanced programming in Java and C++ * Data structures and algorithms in C++ * Computer organization and design with low level hardware organization and MIPS assembly language * OS development * C/C++ * MIPS assembly language programs * Low-level algorithms development * Web development in HTML, CSS, PHP, JavaScript, SQLt * Social network application, with reactive SPA interface, from back when PHP was cool.  **Informal** Passionate autodidacticism and a penchant for tinkering has kept me busy on personal projects. I’ve spent thousands of hours scouring documentation, dev notes, bug reports, etc. While my formal CS education has benefited from the wisdom and nuance of some experienced professors, the majority of my programming knowledge comes from personal self-teaching. I’d like to continue my formal education at some point, but the value proposition is just not enough to warrant diverting so much time & funds as I’m currently focusing on my career, investing, and personal projects.   * Robotics   + Arduino & other microprocessors and embedded computers   + Hardware-software integration   + Line following robots   + Autonomous quadrotor (current WIP) * Window Manager & Desktop Environment development. * Home Automation hardware, and applications. * Distributed/decentralized music streaming service. * Donald Trump simulator twitter bot. * Dabbled in Machine learning neural networks and genetic algorithms so i don’t get left behind. * Frameworks for Physics simulations.       **Technical Skills and Experience** **Skill Summary** ver **Software Development Tools**  * Environments: Linux, OSX, Windows (Linux preferred) * Paradigms: Object-Oriented, Procedural, Imperative, Functional Programming * Languages:   + General Purpose: C, C++, Python, UNIX shell, Go, Rust, VB.NET, C#, Haskell   + Web: JavaScript , PHP, HTML5, JSON, XML, ASP(X)   + Database: Several SQL DBMS (MySQL, T-SQL, PostgreSQL), Mongo * Scientific/Math: Numpy, Pandas, Jupyter Notebooks * Web Frameworks: Node.js, Angular.js, .NET, Flask, Django,, SQLAlchemy * Tools: Ansible, Vagrant, CMake, GCC, VIM, a lot of IDEs * Containerization: Docker, k8s       **Professional Experience** **Software Engineer/Systems Admin - United Community Bank (2021-present)**  * Built and maintained critical applications for the bank. * Gained experience running microservice based applications in on-premise Kubernetes clusters. * Built and maintained several linux servers in both development and production environments. * Used automation tools like Ansible to automate server patching and configuration.  **Programmer/Analyst - Illinois Attorney General (2017-2021)**  * Gained significant experience with .NET and other Microsoft dev tools. * Led multiple projects, developing complex full-stack applications from the ground up, as well as creating procedures for usage and maintenance. * Builtfurther team development experience.  **Chief Technical Officer - Hope Veterinary (2017-2019)**  * Built and maintained business website. * Handle all IT, data, security needs.  **Lead Software Engineer - Hupp Information Technologies (2015-2017)**  * Developed and maintained educator certification and employment management websites for Departments of Education for several states. * Contributed client-side upgrades responsible drastic site-wide performance increases * Team-based software development experience * Large-scale (10+k users, 10+M database records) deployment experience. * Built web apps using Microsoft .NET web frameworks  **Web Developer (independent contractor) - Solomon Colors (2015)**  * Developed web apps for product marketing * Gained experience with Joomla! CMS   + Designed Joomla! templates   + Development/modification of Joomla! plugins           **References**  **Lawrence Wagy** - Sr. Technical Project Manager, Illinois Attorney General, 217.414.6966  **Derek Ishmael** - IT Systems Security Analyst, Illinois Attorney General,  **Artemis Cook - ,** United Community Bank, 217.341.3353 |
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