

Darrell Piner

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Based in Greater Denver, Colorado

Authorized to work in the US for any employer.

Open to opportunities:

- **onsite** in Boulder, Downtown Denver and the northern 'Suburbs',
- **hybrid** in Metro Denver area, and
- fully-**remote** opportunities

SUMMARY

Extensive experience designing and implementing software systems in a wide array of languages and technologies. Most comfortable with **C++** and system-level applications; lots of experience with **SaaS** and **cloud services** over the last few years.

Experience in modern technologies e.g., **OO**, **containerization**, **microservices**, **cloud**, **REST**.

Full understanding of the **development lifecycle**, **agile** processes / ceremonies, and a desire to **drive the processes** in efficient and useful ways making the **team and company grow** and **helping people** become **better** at what they do both professionally and personally.

Math geek who enjoys **measuring** things, **gathering** data, **identifying** trends, experimenting with, and “discovering” what the numbers might mean.

Extreme interest in identifying and gathering **metrics** measuring all aspects of software development including inception, planning, and mapping, as well as, typical development tasks, and using such to identify trends and gauge performance.

Eager to **lead** and **inspire** others (not just engineers) to **become better** at their craft, whether as their peer, leader, or underling.

Love of all things tech. With an eye for new tools and techniques to do really cool things.

OBJECTIVE

Secure a position leading and driving development of **interesting**, **useful** software and services, where I can **write software**, **build teams**, and **develop engineers**, plan and build **architectures** and **software solutions**, and **mentor** and help others in the same and on their path.

Specifically, interested in ‘**leadership**’ roles driving **planning**, **requirements**, and **processes** where tools and techniques are identified and research performed for **proper usage** in potential solutions, and **driving execution** to successful deployment.

EXPERIENCE

Ivanti, Salt Lake City, UT — *Fully Remote Senior Software Engineer* — Nov. 2021 – July 2024

Using modern C++ on Linux:

- supported / augmented / enhanced in-house SDK for cross-platform patch management
- supported and tested legacy (content-based) C++ Linux patch engine
- developed a framework for new generation (content-less) patch engine including
 - composite pattern to decouple steps from driving algorithm
 - algorithm calculating package state of machine before and after operation
 - abstraction so that algorithm was wholly decoupled from the operation itself
 - state management to handle interruptions in any step
 - reboot scheduling / management and resume capabilities
 - full test-drive mode handling canned responses for selected steps

Using docker and compose specifications for ever-growing set of Linux distributions developed:

- (compile|build|package|publish)-as-a-command from a single host
- validation tests for each target distribution
- build artifacts published to an arbitrary mounted data store
- specifications for X11, debug, and other developer chosen tools
- sets of configuration-as-code specifications for local and orchestrator deploy

Other Accomplishments:

- championed and led weekly knowledge exchange meetings among teammates and with other invited teams' members

Tools/Skills: C++, Linux, day-to-day machine Ubuntu LTS, docker, docker-compose, cmake / make, gdb, design patterns.

Mersive, Denver, CO — *Senior Software Engineer* — Feb. 2020 – July 2021

Using Python, connexion and openapi / swagger specifications:

- productized location service from data-scientist prototype
- SAML integration with identity providers
- developed pandemic 'workplace wellness' service for safe resource scheduling / utilization

Using docker and compose specifications:

- drove / influenced cloud techniques migrating a monolithic cloud distributed system to a micro-service-oriented solution
- developed and presented docker-based tools for front-end developers for testing

Other Accomplishments:

- championed and led weekly knowledge exchange meetings among teammates

Tools/Skills: Python, flask / connexion, docker, docker-compose, git, gcp, k8s, drone

JumpCloud, Boulder, CO — Senior Software Engineer — July 2018 – Jan. 2020

Using nodejs and go supported / augmented / enhanced:

- web microservices for cloud-based active directory service
- backend directory functionality
- directory microservice integration with external services (gsuite)

Other Accomplishments:

- performed some lead and product owner roles for team
- worked with newly onboarded TPM role to fast-track understanding and provide much needed Product Management input to the team

Tools/Skills: nodejs, golang, linux, backend, docker, docker-compose, bash, grpc, mongo, postgres, github, agile, ldap, gsuite, o365, intellij / golang / datagrip, robo3t, apache directory studio, aws

Alteryx, Broomfield, CO — Senior Software Engineer — Oct. 2017 – June 2018

Using C++ on Windows and Linux:

- supported / augmented / enhanced analytics engine application
- ported plugins from legacy engine format

Championed:

- move to formal code reviews
- transparent use of docker containers for QA testing on Windows
- Linux port analysis, troubleshooting, and container testing

Other Accomplishments:

- recruited members and chartered an internal Toastmasters International club
 - acted as Club President recruiting and training other officers

Tools/Skills: visual studio, C++, code collaborator, docker, linux, agile

MassRoots, Denver, CO — Senior Software Engineer — May 2017 – July 2017

Using golang:

- rewrite a specialized social network to be more scalable
- developed behavior-driven-development test suite for rewrite

Other Accomplishments:

- Identified as Manager for Community team -- company ran out of money; engineering team dissolved.

Tools/Skills: linux, microservices, containers, intellij / golang, firebase, android

NexGen Storage/Pivot3, Louisville, CO — Senior Software Engineer — April 2014 – May 2017

Using C++ on high-performance Linux storage processor:

- led research on next generation QoS algorithm
- developed framework for using different QoS algorithms
- gathering and visualization of IoB metrics

Tools/Skills: C++, linux, R, shiny, java, bash

Cisco, Denver, CO — Senior Software Engineer — April 2008 – April 2014

- C++ on Linux on Jabber / XMPP server features.
- Python on Linux for unit / functional tests of Jabber / XMPP server.
- Java on Android for Cisco Spark application (2nd member of initial team).

Tools/Skills: C++, python, java, android

Aztek Networks, Boulder, CO — Senior Software Engineer — July 2007 – April 2008

- Led initial software portion of new, from scratch, line-switch project.
- C++ on Linux on emergency telephone switch.
- Javascript / PHP for full-stack UI port / redesign for ported VOIP switch.

Tools/Skills: C++, php, javascript

Xpedite / Premiere Global, Boulder, CO — Senior Software Engineer — Oct. 1998 – July 2007

- Lead on scripting and session manager components from design to integration to deployment.
- C++ on SCO and Linux on scripting and session management components of telephony server.
- Created proprietary scripting language for specialized call flows.
- Wrote tooling and application framework for common component processes.

Tools/Skills: C++, sco, linux, telephony

Bendata, Colorado Springs, CO — Senior Software Engineer — Jan. 1997 – Oct. 1998

- C++ on Windows on GUI components of Help Desk software.
- Developed dockable window framework in proprietary windowing library.

Tools/Skills: C++, glyphs

Auto-trol, Denver, CO — Software Engineer — March 1995 – Jan. 1997

- C++ on HP-UX and Solaris on 3D modeling visualization tool.
- Developed framework around X-window spec. for windowing and event dispatching.
- C++ on Windows on extending test suite.

Tools/Skills: C++, hpux, solaris, emacs

GA Sullivan, St. Louis, MO — Consultant — August 1994 - March 1995

- C++ on Windows on client cataloging application.
- Nantucket Clipper for insurance company claims software.
- C on Windows on corporate travel agency software.
- Extended Clipper application for multiple users on a network

Tools/Skills: C++, clipper, consulting

EDUCATION

Kansas State University, Manhattan, KS — Master of Science — 1992-1994

- Master of Science in Computer Science (3.7/4.0)
- Coursework 1992-1994
- Defense: 1998
- Project: Compiler for Object Metric Analysis
 - measuring the object-oriented-ness of C++ code.

Fort Hays State University, Hays, KS — Bachelor of Science — 1988-1992

- Bachelor of Science in Mathematics (3.8/4.0)
 - Computer Science emphasis
 - Management Information Systems minor
- Senior Project / Presentation: Object-Oriented Programming

WORDS

C++ - modern-C++ - gdb - OOD / OOP - templates - lambdas - threading - microservices - atomic-operations - Linux - Ubuntu - Redhat - docker - containerization - control groups - lxc - proxmox - virtualization - qemu / kvm / vmware - kubernetes - BASH - IPC - git - REST - Python - SaaS - backend - json - xml

computational-complexity - efficiency-management - requirements analysis - planning - measurement - metrics - trends - engaging-presentations - EQ - mindfulness - intrinsic / extrinsic-benefits