AARON R MILLER

Fullstack Software Engineer

@ drkstr101@gmail.com ☎ 509-802-1855 ✉ 101 S Kellogg St., 99336, USA 📍 Kennewick, WA
🌐 watheia.com ⬡ drkstr101 ⬙ aaron.miller in aaron-miller-452244173

CLIFTON STRENGTHS™

- Relator
- Connectedness
- Futuristic
- Ideation
- Learner
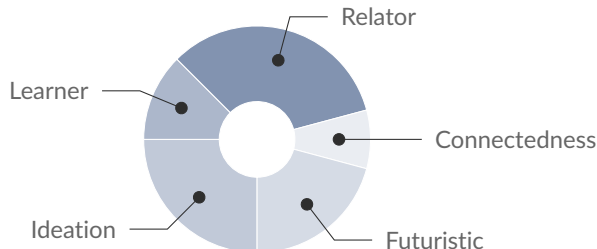
INDUSTRY EXPERIENCE

Watheia Labs, LLC

Self   📅 Jun 2019 – Ongoing

Co-founder and chief technical lead at digital agency

Internal Projects

- Created a serverless double-entry bookkeeping solution with an immutable append-only transaction ledger. (Programming, Serverless, DevOps, REST, Oauth2, AWS, Lambda, QLDB, Nodejs, HTML5)

- Implemented secure backend for public contact service using a throttled API Gateway and Lambda function for real-time notification delivery (Programming, Serverless, DevOps, SendGrid, Lambda, Amazon SNS, DynamoDB, Typescript, Nodejs)

- Completed research, planning, and prototyping phases of a New Product Development (NPD) plan for a Platform as a Service (PaaS) product (NPD, DevOps, Serverless, Digitalocean, AWS, GCP, Kubernetes, GitLab, RancherOS, Docker, K3S, Istio, Terraform, Vault, Cloud Native Buildpacks, Python)

Stackbit.com

- Developed and integrated a full-featured text editor for, Stackbit.com with support for basic text formatting, rich data tables, hot-links, mentions (@username), custom components support, auto-format markdown symbols, soft/hard breaks, and auto-format on paste (deserialization) for; DOCX, HTML, Markdown, and CSV content. [2] (Programming, UX, react, typescript, JavaScript, Nodejs, Slate)

- Fixed design flaws in 'stackbit-target-nextjs' [2] that prevented proper caching (change detection) and parallelization within a monorepo build. [3] (Programming, Typescript, Nodejs, Nx)

Auto-DevOps.com

- Created prototype PaaS serverless infrastructure on Digitalocean droplet with RancherOS running K3S preconfigured and optimized for Auto-DevOps workflows using KNative + Istio + GitLab Runner (DevOps, Serverless, Digitalocean, Kubernetes, Knative, Terraform, Postgres, GitLab CI)

- Created a working prototype for multi-project build leveraging cloud-native buildpacks for Auto-DevOps. [3] (DevOps, Serverless, Kubernetes, Python, Microservices, GitLab CI)

TOP SKILLS

Programming   Leadership   Systems
Communication   DevOps   UI/UX Design

LANGUAGES

Language					
Typescript	●	●	●	●	●
JavaScript	●	●	●	●	●
Java/JDK	●	●	●	●	●
Groovy	●	●	●	●	○
Python	●	●	●	●	○
C/C++	●	●	●	○	○
C#/.NET	●	●	●	○	○
Kotlin	●	●	○	○	○
PHP	●	●	○	○	○
Rust	●	○	○	○	○
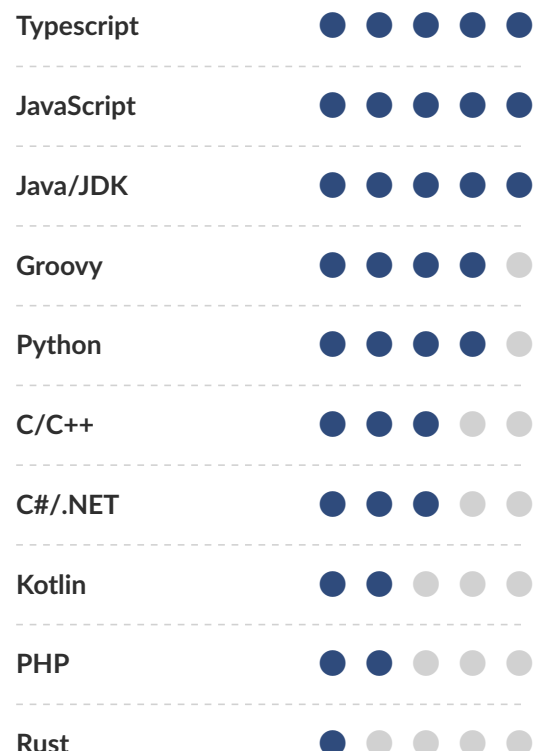
Xtext

- Implemented AbstractCodeMiningTest and AbstractMultiQuick-fixTest to provide a convenient way to test the code mining and multi-quickfix capabilities within Xtext [4] (Programming, Java, Xtext, ANTLR, LSP, Junit)
- Extended example projects and the Xtend code base to demonstrate the usage of these framework classes (Programming, Java, Xtext, ANTLR, LSP, Eclipse, Junit)

Natural

- Added LSP support to Natural; An eclipse plugin for Cucumber and JBehave [5] (Programming, Java, Xtext, ANTLR, LSP, Eclipse, Groovy, Cucumber, JBehave, BDD)

CartoonifyIt

- Developing an Augmented Reality (AR) demo application with Rust and Android NDK [6] (Programming, Mobile, Android, C/C++, Rust)
- Ported Android NDKCamera SDK from C++ to Rust and released as a standalone crate (Programming, Mobile, Android, C/C++, Rust)

Expedia Group

W2/Contract 📅 Nov 2018 – Jun 2019

DevOps Systems Engineer at Expedia Group (WAVSYS)

Systems Engineer II

- Reduced maintenance cost by aiding in the transition of a legacy monolith project to a more modern automation framework (Programming, Backend, Stackstorm, Vault, ServiceNow, Microservices, Kubernetes, .NET, Python)
- Improved the efficiency of Stackstorm pack development by building and maintaining an automated acceptance testing and specification framework (Programming, Build Systems, Stackstorm, Vault, Gradle, BDD, Java, Groovy, Python, Serenity)

Catalyte-Surge IT Services

1099/Fulltime 📅 Oct 2017 – Jun 2018

General contractor at staff augmentation firm

Electronic Medical Records App

- Removed primary blockers and reduced runtime memory footprint by an order of magnitude in an Electronic Medical Record (EMR) web application (Programming, FullStack, Microservices, REST, Nodejs, HTML5, ES6, Babel, Flow, Express, React, Redux)

Emory University 2FA

- Developed client side module and build release system for custom 2FA authentication, when using the AWS Command Line Interface within Emory University's internal network (Programming, AWS, Microservices, SOAP, Gradle, Spring, Java, Groovy, EAR)

Vivid Learning Systems

W2/Fulltime 📅 Oct 2010 – Apr 2017

Software developer for "eLearning" products and services company

Sr. Programmer

- Developed prototype mobile VR app used by the sales team to entice potential customers at trade shows (Programming, Mobile Apps, C/C++, Java, Android NDK, Google VR, GearVR (Oculus), Unreal Engine)
- Automated workflow for production department and drove the adoption of Continuous Integration into the development process (Programming, Build Systems, DevOps, Systems Integration, Java, Groovy, Gradle, Python, OSGI, Jenkins, Eclipse)

TOP ACHIEVEMENTS

Advanced Placement Program
Earned 3 college credits in Mathematics and 2 credits in Computer Science through the Advanced Placement program at Plano East Senior High

National Forensics League
Won multiple trophies in varsity debate for out-of-state competitions and tournaments at Plano East Senior High

DiggCharts
Wrote the DiggCharts application which won second place in the Digg.com Data Visualization Contest

AllStudentRentals.com
Developed the flagship product for winner of the "Best Business Idea" contest at California State University

NuLabel Technologies
Worked with Director of Science to develop database-driven software systems that replaced existing spreadsheet-based workflow in use by the lab techs; Later bundled and sold as COTS product.

Vivid Learning Systems
Developed prototype mobile VR app used by the sales team to entice potential customers at trade shows

Volunteer Work
Laid underground sprinklers and built pipe valve mechanisms at Richland Children's Center; Read blueprints and directed volunteer work crew to construct wooden playground equipment at Playground of Dreams

REFERENCES

This document is data driven!

Source Data & Code Samples

🌐 github.com/drkstr101/resume

[1] https://sb-editor.vercel.app/ (demo)
[2] https://github.com/stackbit/sourcebit-target-next
[3] https://gitlab.com/watheia/labs/auto-devops-example
[4] https://www.eclipse.org/Xtext/releasenotes.html
[5] https://github.com/watheia/Natural
[6] https://github.com/drkstr101/CartoonifyIt
[7] https://www.linuxquestions.org/questions/linux-software-2/gmailfs-howto-guide-to-using-your-gmail-account-as-a-linux-file-447218/

- Designed and developed front end framework to enable the production of Computer Aided Learning content as a fully Progressive Web App, eliminating the reliance on Flash/Air runtimes in flagship product (Programming, Microservices, UI/UX Design, Progressive Web App, Javascript, HTML5, Closure Compiler, Underscore, jQuery Mobile, CreateJs, Nodejs)
- Created prototype data service-oriented back-end architecture that supports user authentication and tracking for deployment scenarios outside a traditional LMS web portal, later adopted by another team as the basis for a rewrite to the backend LMS product (Programming, Microservices, RPC, C#/.NET, Entity Framework)

Programmer II

- Implemented mobile-compatible front-end architecture to bring a flagship product to the App/Play Store (Programming, Mobile Apps, UI/UX Design, Flash/Flex, Adobe Air, Python, Apache Ant)
- Maintained existing flagship product that delivers and tracks the usage of rich media content for the purpose of Computer Aided Learning ("eLearning") (Programming, Flash/Flex, Actionscript, SCORM)

Open Base Ineractive / Splash Labs

Self   📅 Jul 2007 – Feb 2011

Co-founder and chief technical lead at digital agency (previously dba "Splash Labs, LLC")

NuLabel Technologies

- Worked with Director of Science to develop database-driven software systems that replaced existing spreadsheet-based workflow in use by the lab techs (Product Development, Business Analysis, DevOps, RPC Service, Programming, UI/UX Design, Java, Tomcat, Google API, Flex, Actionscript, Postgres, Python, Jenkins, Data Visualization)

Demand Lending

- Designed and developed the software systems for flagship product of a Direct Lending startup (Product Development, Business Analysis, Systems Architecture, UML Modeling, Use Case Analysis)
- Managed a team of developers to bring flagship product to market (Project Management)

All Student Rentals

- Created client-server marketplace of rental properties for the winner of the "Best Business Idea" contest at California State University (Product Development, Programming, UI/UX Design, Flash/Flex, RPC, PHP, AMF3, Yahoo! Maps, Google Analytics, HTML5)
- Integrated phone service with back-end systems to automatically detect billable leads, through the use of auto-generate extension numbers shown in the front-end app, keyed by listing and vendor ID (Programming, Systems Integration)

Team08

- Developed Fullstack system to enabled custom snowboard designs to be created and purchased online (Programming, UI/UX Design, Flash/Flex, RPC, PHP, Magento, Databases)
- Integrated back-end database systems with CAD manufacturing systems to automatically produce working specs from the web-based designer utility in the store front-end. (Programming, Systems Integration)

Digg.com

- Created the "DiggCharts" app which won second place in the Digg.com API data visualizations contest (Programming, Flash/Flex, UI/UX Design, Digg API, Data Visualization)

North Coast Credit Union

W2/Fulltime   📅 Feb 2006 – Jun 2007

Loan Officer at a local credit union

HSBC

W2/Fulltime   📅 Apr 2004 – Oct 2005

Funding analyst for subprime auto loans

Capital One

W2/Intern   📅 Oct 2002 – Apr 2004

Funding analyst (intern) for subprime auto loans