

DAKOTA FARRSTROM

COMPUTER SCIENTIST | MUSIC INDUSTRY PROFESSIONAL | COMPOSER | LUTHIER
(360) 504-7888 | [KOTA@FRRSTRM.COM](mailto:kota@frrstrm.com) | WHIDBEY ISLAND, WA
[LINKEDIN.COM/IN/FRRSTRM](https://www.linkedin.com/in/frrstrm) | [GITHUB.COM/FRRSTRM](https://github.com/frrstrm) | [FRRSTRM.COM](https://frrstrm.com)



SUMMARY

Experienced music industry professional and computer scientist with an unrelenting passion for the intersection of technology and creativity within the realms of music, audio, and stringed instruments. Proven track record with 12 years of versatile and development-centric expertise across diverse industries, consistently demonstrating leadership and collaboration within dynamic teams. Proficiencies extending from project conceptualization through design to implementation, emphasizing both empathy and enthusiasm as work-ethic cornerstones.

EXPERIENCE

IT Consultant (Freelance/Contract)

08/2019 - Current

Security Services Northwest, Inc | Sequim, WA

- Provided comprehensive support and established modernized IT architectures and policies for all internal devices, environments, and company utilized software, significantly reducing downtime and boosting baseline productivity and cybersecurity for a network of over 700 employees.
- Liaised with vendors and service providers to ensure the client's IT systems aligned with current industry standards and technologies, enhancing overall infrastructure reliability.

Sapphire Mountain Apparel | Whidbey Island, WA

- Led end-to-end web development via Shopify and WordPress, delivering and supporting a visually appealing and globally accessible internet storefront.

Oregon Institute for a Better Way | Cottage Grove, OR (Remote)

- Provided support and expertise for the development of a centralized database, technology network, and IT policy-set supporting the functions for a government recognized System Navigation non-profit organization.

Founder, Master Luthier

08/2014 - Current

Farrstrom Soundworks | Whidbey Island, WA

- Founder of private lutherie focused on crafting distinctive guitars and providing high-quality instrument repair services for local and indie musicians.
- Emphasis on quality and environmental responsibility by utilizing sustainably sourced tonewoods in all instruments crafted and repaired.
- Creation and management of a streamlined, user-friendly website via WordPress to seamlessly facilitate global exploration and purchase of instruments.
- Development of ML/AI-driven "Tonewood Assistant" tool for customer-sided tonewood configuration experimentation and informatics. Developed in Python and HTML/CSS, trained using ScikitLearn ML libraries, deployed via Flask.

Software: MS Office, Adobe Creative Suite, Rhinoceros, SolidWorks, WordPress;

Languages: HTML5, CSS, Python

Services Software Consultant

01/2022 – 07/2022

BIOVIA, Dassault Systèmes | Bend, OR (Remote)

- Executed software development and product consultancy responsibilities within the North American BIOVIA Services ELN/LIMS delivery program for Fortune 500 life sciences clients, specializing in laboratory process/workflow digitization and integration via tailored cloud-based software solutions.
- Employed extensive and effective communication with peers, project stakeholders, and subject-matter experts to ensure seamless collaboration and project success in various workflow methodologies, including Agile and Waterfall.

Software: AWS, Azure DevOps, Jira, Visual Studio, BIOVIA Suite; Languages:

C/C++, Java, JavaScript, Python, JSON, SQL, HTML5, CSS

SKILLS

Hard Skills

Lutherie | Instrument Repair
Composition | Performance
Quality Assurance | Sales | R&D

Soft Skills

Adaptability | Courage | Creativity
Curiosity | Drive | Empathy
Integrity | Leadership
Resourcefulness | Teamwork

IT PROFICIENCIES

Languages

C/C++ | Java | Python
HTML5 | CSS | SQL/MySQL

Software Development

AWS | Azure | Jira | Xcode
Visual Studio | IntelliJ IDEA
PyCharm | OOP

Audio/Arts

Logic Pro | Pro Tools | Reaper
WWISE | JUCE | Unreal Engine 5
Photoshop | Illustrator

Scientific/Engineering

BIOVIA Suite | SolidWorks
Rhinoceros | AutoCAD

Workflows

Agile | Scrum | Waterfall | DevOps
SDLC

EXPERIENCE

Services Software QA Engineer

06/2021 – 07/2022

BIOVIA, Dassault Systèmes | Bend, OR (Remote)

- Played a key role in software quality assurance and product consultancy within the North American BIOVIA Services ELN/LIMS delivery program for Fortune 500 life sciences clients.
- Conducted thorough functional, regression, and edge testing and verification of client software and hardware integration, ensuring successful outcomes with a live product bug-rate of 1% or less on assigned/deployed projects.
- Leveraged extensive and effective communication with internal developers, project stakeholders, and subject-matter experts to facilitate seamless collaboration and achieve project objectives in various workflow methodologies, including Agile, Scrum, and Waterfall.

Software: AWS, Azure, Jira, Visual Studio, BIOVIA Suite, MS Office, Postman;

Languages: C/C++, Java, Python, JSON, SQL, HTML5, CSS

Sound Optimization & QA Manager, Lead Luthier

06/2014 – 04/2020

Two Old Hippiess LLC: Breedlove Guitars, Bedell Guitars | Bend, OR

- Led the Two Old Hippiess Sound Optimization program from March 2019 to April 2020, achieving a substantial decrease in unsatisfactory variance between instrument tonal quality from approximately 26% to just over 11% in all USA-built guitars during my tenure.
- Functioned as a Lead Luthier, bringing and building expertise to the craft of guitar making and contributing to Research and Development for the overall enhancement of instrument tonal quality.
- Oversaw quality management processes, ensuring the highest standards in the production of guitars and fostering a culture of excellence within the team.
- Managed the production-line and custom shop tonewood and wood library operations, meticulously selecting materials to enhance the overall quality and uniqueness of each instrument crafted by the company.
- Artist Relations assistant; Custom Shop sales assistant; Event Customer Service

Software: MS Office, SAP Business One, Galloup Wood Management System, WordPress

EDUCATION

Bachelor of Science, Computer Science

Nov. 2020 - Aug. 2023

Western Governors University | Salt Lake City, UT

Graduated: August 29th, 2023

LANGUAGES

English

Native



French

Intermediate



REFERENCES

Asa Waterstraub – Program Mentor – *Western Governors University*

asa.waterstraub@wgu.edu | (385) 428-3632

Taylor Neal – (Former) Services Software QA Engineer – *BIOVIA*

laenrolyat@gmail.com | (805) 468-5701

Miles Benefield – (Former) Operations Manager – *Two Old Hippiess LLC*

milesbenefield@gmail.com | (541) 248-4423

Ian Schellinkhout – (Former) Luthier, Production Lead – *Two Old Hippiess LLC*

ischellinkhout@gmail.com | (541) 848-8373

CERTIFICATIONS

CompTIA Project+



ITIL4 Foundations



PASSIONS

Music

Active music composer, producer, and performer. Multi-instrumentalist, with a focus towards guitar. Guitar, amp, and tone aficionado. Private Instructor.

Indie Game Development

Freelance game designer interested in projects involving themes of RPG, Open Worlds, Multiplayer, FPS, Third-Person, and RTS.

Conservation and Nature

Passionate community advocate and volunteer for natural/wildlife preservation and sustainability. Lifelong pet owner and animal rights activist.