LUKE PIERCE

Littleton, CO 80126
(720) 854-9774 • lpierce1313@gmail.com
linkedin.com/in/luke-c-pierce

SENIOR SOFTWARE ENGINEER

Seasoned and results-driven senior software engineer with extensive proficiency in front-end design, full-stack development, and web applications. Recognized for leveraging industry insights to craft tailored software solutions that align with organizational and client objectives. Known for collaborative prowess, utilizing creative, analytical, and communicative abilities to enhance project outcomes and deliver exceptional value.

CORE COMPETENCIES

Software Engineering • Front-end Development • Full Stack Web Applications • Artificial Intelligence (AI) • Unit Testing • Docker & Containerization • Agile Processes • Coding • Software Development Lifecycle (SDLC) • Geospatial Analysis • GIS Data Handling • Data Analysis and Visualization • Database Management • Programming Language Research • Team Collaboration • Algorithms • CI/CD Pipelines • Cloud Deployment (AWS, Vercel) • Written and Verbal Communication

| 5/2022-Present | **VERITONE** | **REMOTE - COSTA MESA, CA** |

Senior Software Engineer

- In my capacity as a Senior Software Engineer at Veritone, I've taken the lead on the development and enhancement of four core applications, leveraging modern technologies such as React, Docker, and NodeJS
- AI-Powered Video Redaction: Spearheaded the development of an innovative application employing artificial intelligence to automatically redact video cam footage. This has been pivotal in ensuring both individual privacy and adherence to data protection standards.
- Contact: Conceived and developed a specialized tool for law enforcement agencies. This application facilitates the creation of comprehensive reports surrounding various police stops, aiding in data analysis and identity profiling.
- Media Transcription Software: Designed and implemented a media transcription platform, enabling users to seamlessly upload audio and video content. Advanced algorithms then transcribe the content, producing editable outputs to cater to a myriad of user requirements.
- Tracker: This intuitive app focuses on video analysis, automatically placing detection boxes around points of interest (POIs) on videos, enhancing content interpretation and analysis for users.

| 11/2022-Present | *Yulista Holding Company LLC / DSoft Technology* | **REMOTE - COLORADO SPRINGS, CO** |

Independent Consultant

- Spearheaded the maintenance and improvement of dockerized environments using Docker Compose. The containerization environment consisted of the automated script that would start up several containers including 1 front end container, and 3 backend service containers
- Elevated unit test coverage from 20% to over 85% in a large-scale Angular application using JUnit tests.
- Worked independently to enhance software stability and performance, ensuring seamless deployment in dynamic environments.
- Applied expertise in front-end app design and integrated the latest technologies to streamline project workflows.

| 2/2021-05/2022 | **DSOFT TECHNOLOGY, ENGINEERING, & ANALYSIS** | **COLORADO SPRINGS, CO** |

Staff Software Consultant

- Employed KML (Keyhole Markup Language) files to generate heatmaps and visualize spatial data within CesiumJS-based applications.
- Developed algorithms and integrated functionalities to process KML files and plot heatmaps dynamically on CesiumJS, enhancing data analysis capabilities for clients in Air Force Space Command.
- Responsible for full-stack software development for a web application used by Air Force Space Command to track and display large data sets. By utilizing the following technologies, AngularJS, JavaScript, Java SpringBoot, MySQL, Gradle, Docker, Kubernetes, HTML, and CSS, new features are implemented, bugs are corrected, and the website is deployed and tested via Jenkins and AWS.

- Responsible for meetings periodically as a Scrum Master by leading stand-up, retrospectives, backlog grooming sessions, and sprint demonstrations by using JIRA to organize these events

5/2019- 01/2021	RAYTHEON TECHNOLOGIES **Software Engineer**	AURORA, CO

- Create custom client software solutions focused on JavaScript, front-end development, and Java Spring Boot and PostgreSQL back-end development.
- Mentored software engineer team members on front-end development tools and best practices.
- Identify and address problem areas through comprehensive testing and analysis of project systems flow, data usage, and work processes. I followed the software development lifecycle to ensure the completion of client deliverables.
- Worked with various GIS data formats such as GML (Geography Markup Language), KML (Keyhole Markup Language), and GeoJSON, ensuring compatibility and seamless integration with CesiumJS.
- I obtained TS/SCI clearance to expand eligibility for client project work base.

Select Achievements
- Consistently achieved an 85% biweekly project completion rate, exceeding company targets.
- Received high-performance rating due to collaborative work on front-end development tasks.

5/2018- 5/2019	VORTEK INSTRUMENTS, LLC **Electrical Engineer Intern**	LONGMONT, CO

- Management assigned a software development project to develop a Modbus web program in NodeJS.
- I have enabled the functionality of existing simulator programs originally written in C++ to work with NodeJS V8 engine on web applications.

5/2017- 3/2018	DIGIQUATICS **Software Development Intern**	LAKEWOOD, CO

- Utilized web development programs, such as Ruby on Rails and AngularJS as Full Stack developer for start-up software companies. Collaborated on building company software framework and user databases.
- Developed new features for existing web applications, improved existing features, and ensured proper application functionality by performing thorough testing.

EDUCATION

2018	COLORADO SCHOOL OF MINES	GOLDEN, CO

Bachelor of Science, Electrical Engineering (GPA 3.76) *magna cum laude*
Dean's List, Spring 2017
Awarded Outstanding Graduating Senior Award for Electrical Engineering, recognizing exceptional academic performance, leadership, and contributions within the department.

Select Projects
- Antenna Glasses - Worked with Ball Aerospace and team to design glasses with embedded dipole antenna. Frame developed in SolidWorks, antenna in HFSS, 3D printed at UTEP, and tested at Ball facility.
- The Ideal Solar Cell - Developed a program in Matlab to simulate solar cell sunlight conversion to solar energy to determine solutions and improve its efficiency.

SELECT PROJECTS

- GreetBox -
  - o Built using Next.js, Ruby on Rails, Tailwind CSS, Firebase, VercelJS, and CircleCI
  - o Users can share group-based greeting cards with family, friends, and co-workers. Customize each message with fun GIFs, photos/videos, and gift cards
  - o GreetBox Cards can be shared instantly by sharing a simple link
- Portfolio Website - www.lukepierce.dev
  - o I developed a personal portfolio website describing past experiences, about me, and personal projects. Built from Next.js to allow seamless page routing and Chakra UI for design
- SpeedyNote -
  - o Allows users to create simple, shareable notes created temporarily or encrypted with a password and designed for ease of use, efficiency, and power. Built with Next.js and Tailwind.

TECHNICAL

Programming Languages: Javascript • Typescript • Java • HTML • Css • Scss • Verilog HDL • C++ • Matlab
Web Frameworks/Libraries: • ReactJs • AngularJs • Next.js • Sprintboot • NodeJs • Express.js • CesiumJS • Material UI • Tailwind Css • Tailwind Css • React Testing Library
Database: PostgreSQL • MySQL • Firebase
Tools: Docker • AWS • Vercel • Kubernetes • IntelliJ • VSCode • Firebase • Circle CI • Git • RHEL • Linux