

# Fernando Berrospi

U.S. Permanent Resident

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## Skills

**Programming Languages:** Python, JavaScript, R

**Tools:** React.js, Git, MongoDB, PostgreSQL, Firebase, Jira, HTML, CSS, Microsoft Power BI

**Frameworks:** Next.js, Express.js, Django, Tailwind CSS, Bootstrap, TensorFlow, PyTorch, OpenCV

## Experience

### Jackson Hole Mountain Resort

Nov. 2024 – Present

Operations Manager | Microsoft Excel, Microsoft Power BI

Jackson, WY

- Implemented data-driven decision-making by analyzing customer feedback and sales trends, achieving a 6% revenue increase through predictive analysis of seasonal trends.
- Automated inventory tracking processes by implementing digital inventory systems with predefined stock thresholds and real-time logging, reducing manual errors and saving 3.5 hours weekly.
- Streamlined reporting processes by developing digital dashboards in Power BI that consolidated data from sales and inventory logs into real-time visualizations, cutting reporting time by 35%

### Vail Corporation

Nov. 2023 – June 2024

Dining Operations Supervisor | Microsoft Excel, Legion

Keystone, CO

- Led daily retail operations, including performance monitoring, budget management, and scheduling, achieving a 7% reduction in operational costs while maintaining high service standards.
- Streamlined inventory control processes, reducing inventory discrepancies and decreasing stock shortages, which contributed to a 10% increase in sales volume.
- Optimized staff scheduling, improving payroll efficiency and reducing overtime costs, resulting in a 17% improvement in customer service ratings.

### PROEMISA

Jan. 2023 – Aug. 2023

Frontend Developer | React.js, Tailwind CSS, Next.js, Git

Remote

- Improved user experience by optimizing website performance, cross-browser compatibility, and mobile responsiveness, resulting in a 37% increase in page load speed.
- Streamlined website development process by creating a comprehensive design system in Figma, including reusable components and style guides, resulting in increasing development efficiency and a reduction in design errors.
- Enhanced website visibility and user engagement by implementing SEO best practices and Google Analytics, resulting in a 14% increase in organic traffic and a 22% improvement in user retention rate.

### MS4M

Aug. 2021 – Sept. 2022

Software Engineer | Python, PostgreSQL, Jira, Power BI, Git, TensorFlow, Open CV

Lima, Peru

- Contributed to developing a machine learning facial landmarks detection model using MobileNetV2 architecture for fatigue detection in South American haul truck drivers, lowering the number of fatigue-related accidents.
- Constructed an optimization algorithm to identify the model with the best hyperparameters, resulting in a 75.82% improvement in blink and yawn detection accuracy.
- Analyzed fatigue detection metrics and KPI data using Jira Query Language and Power BI to identify potential improvements and bottlenecks in the software development process, resulting in a 15% increase in team productivity.

### CDC Gold

Jan. 2019 – July 2019

Junior Software Developer | R, ggplot2, TidyR

La Libertad, Peru

- Developed and implemented a k-means clustering algorithm in R to analyze haul truck delays in mining facilities, resulting in a 25% reduction in delays and saving the company over \$50,000 per month.
- Designed and executed a tracking algorithm in R programming language to optimize the routes taken by water tank trucks, saving the company over \$3000 per truck, per month.
- Streamlined haul truck scheduling efficiency by automating the process using an R script, reducing the time spent on scheduling by 87% and improving on-time delivery performance by 17%.

## Publications

INTERCON 2022 | IEEE

September 2022

- A. Martinez, F. Berrospi, V. Porras and M. Portocarrero, "Using facial landmarks to detect driver fatigue," 2022 IEEE XXIX International Conference on Electronics, Electrical Engineering and Computing (INTERCON), 2022, pp. 1-4, doi: 10.1109/INTERCON55795.2022.9870046.

## Education

Purdue University

December 2019

BS in Industrial Engineering

West Lafayette, IN