ARJUN SUBEDI

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EDUCATION

California State University, Fullerton — Fullerton, CA
BS Computer Science *GPA: 3.7*

EXPERIENCE

Sandia National Laboratories — Livermore, CA
DOE MSIIP Intern — June 2024 - Present

- Played a key role in developing a robust, modular data processing pipeline in Python, leveraging libraries such as scikit-learn, NumPy, and Pandas for advanced analysis and processing of large multi-omics datasets.
- Designed and implemented scalable pipeline components, such as PCA, t-SNE, and HDBSCAN, leveraging machine learning and high-performance computing for efficient complex data transformations, visualizations, and algorithm development.
- Collaborated with postdocs, industry professionals, and researchers to analyze multi-omics data, generating insights with a focus on data processing, visualization, and feature selection.
- Streamlined pipeline workflows and ensured collaborative efficiency by using GitLab for version control, optimizing development processes and team collaboration.

Kaiser Permanente — Pasadena, CA
Data Analytics and Automation Intern — January 2024 - April 2024

- Streamlined ETL workflows and data integration by developing and optimizing processes using Alteryx and Python, improving efficiency and accuracy.
- Enhanced data visualization by utilizing PostgreSQL for data extraction and transformation, integrating with Tableau to create interactive dashboards.
- Managed and standardized healthcare data by processing patient records from Clarity, Kaiser Permanente's proprietary database.
- Automated workflows to reduce manual effort, enhancing accuracy and scalability in data operations.

Crescent Software, Inc. — Signal Hill, CA
Software Developer Intern — August 2023 - December 2023

- Developed and optimized client applications by debugging code and enhancing functionality, ultimately improving the overall user experience, using Visual Basic.
- Designed and maintained customized Sage 100 ERP modules tailored to meet the specific needs of industries such as warehouse management and food distribution, utilizing both Visual Basic and SQL.
- Improved database performance by leveraging SQL for efficient data interaction, analysis, and optimization, which resulted in more reliable and high-performing software solutions.

SKILLS

PROGRAMMING LANGUAGES: Python, C#, Java, C++, JavaScript, SQL, Visual Basic:
FRAMEWORKS: Spring Boot, ASP.NET Core, Django, Flask, Angular, Node.js, MVC Architecture:
CORE CONCEPTS: Object-Oriented Programming, Dynamic Programming, Machine Learning, API Development:
DATA TOOLS: Tableau, Power BI, Alteryx, Excel, Pandas, NumPy, scikit-learn, Plotly, Crystal Reports:
DATA EXPERTISE: Data Visualization, Data Cleaning, Data Aggregation, Data Standardization,:

PROJECTS

HealthWise *React Native, Django, TensorFlow, Firebase, AWS, Python, Git*
Developed an iOS health app combining a symptom checker and personalized fitness/nutrition coach. Integrated machine learning-based predictions, tailored health plans, HIPAA-compliant data storage (Firebase/AWS), and secure OAuth2 authentication. Built with React Native for a seamless, responsive user experience.

Amazon Price Tracker *Python, BeautifulSoup, Requests, SMTP, Git*
Developed an automated Python application to track Amazon product prices and notify users when prices drop below a specified threshold. Implemented web scraping using BeautifulSoup to extract product data, managed HTTP requests for continuous price monitoring, and set up email notifications for price alerts. Deployed the script for regular execution to notify users of price drops.