

Abdias Tellez

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EDUCATION

University of California, Merced

Merced, CA

Bachelors of Science, Computer Science and Engineering

Technical Courses: Software Engineering, Computer Networks, Object Oriented Programming, Algorithm Design and Analysis, Data Structures, Database Systems, Full Stack Web Development, Digital Image Processing, Computer Organization, Numerical Analysis

SKILLS

Programming Languages: C++, Python, Java, R, Kotlin, Swift

Web Development: HTML, CSS, JavaScript, React

Databases: SQLite, MySQL

Tools: Visual Studio, RStudio, Git, AWS EC2, Figma, Slack, Microsoft , IntelliJ IDEA, Docker, Microsoft 365

PROFESSIONAL EXPERIENCE

Associate Consultant (Remote) | Lumenci, Austin, TX

Feb. 2023 - Now

- Spearheaded and led technical consulting for high-stakes litigation involving companies valued at over \$150 billion, offering expertise on cutting-edge technologies in patent infringement lawsuits, ultimately contributing to successful legal outcomes.
- Conducted extensive technical research and performed thorough source code reviews on codebase repositories exceeding 100 GB, leading to informed strategic decisions and optimizations that significantly improved software efficiency and security.
- Executed a comprehensive analysis of public and confidential software in languages such as C, C++, Go, Kotlin, Python, C#, Swift, and Java across diverse industries, yielding valuable insights into the technology landscape and effectively meeting clients' needs.

Research Assistant (Hybrid) | University of California, Merced, CA

Sep. 2021 - Dec. 2022

- Developed MATLAB algorithms for statistical analysis, resulting in a 15% improvement in sensing quality for IoT devices.
- Applied information theory principles to achieve 97.6% sensor consistency in smart agricultural technology, enhancing data collection reliability.
- Designed and implemented advanced algorithms using information theory metrics, reducing sensor measurement uncertainty by 22% in IoT applications.

Software Engineer Intern | Sweep Inc, Merced, CA

Jan. 2022 - May 2022

- Led a team of software engineers to develop an optimized production scheduler, resulting in a 20% increase in production efficiency.
- Implemented a scheduling algorithm that successfully reduced labor costs by 15% by considering various inputs from manufacturing sites, such as worker schedules, skills, and inventory.
- Utilized data structures, such as Graphs and Trees, to efficiently represent input data and solution spaces, resulting in a 25% reduction in computational time during scheduling.
- Successfully managed project timelines, milestones, and deliverables, ensuring on-time project completion within scope and budget constraints.
- Hosted the web application on AWS EC2 instances, providing scalable and reliable infrastructure for seamless operation and ensuring high availability.

PROJECTS

Computer Network Project |

- Engineered a network system with TinyOS and Docker, optimizing routing strategies to achieve a 20% increase in system efficiency.
- Applied networking principles, including 802.11 protocols and RTT, to design and implement a robust system for seamless data transmission.
- Developed comprehensive software documentation, including design documents and user manuals, facilitating efficient knowledge transfer within the team.
- Conducted rigorous testing and debugging procedures, resulting in a highly reliable network system.

Forum Web Application Project |

- Initiated the creation of a forum web application using Flask, JavaScript, HTML, CSS, RESTful API, and SQL, delivering a user-friendly platform.
- Executed thorough testing and debugging procedures, ensuring the smooth operation of the web application.
- Applied Agile methodologies for effective project management, consistently meeting timelines and deliverables.

Database Vulnerability Mapping Project |

- Led the development of a comprehensive database project, mapping vulnerabilities using CVE data and improving user interaction through an intuitive front-end.
- Leveraged Python 3, Fast API, NGINX, Gunicorn, and SQLAlchemy for optimal web application development.
- Established a collaborative version control strategy, maintaining a main branch for error-free code and fostering individual contributions.