Vasista Dhyasani

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CLEARANCE

- Currently hold a **TS/SCI Security Clearance**

EDUCATION

San Diego State University | **Aug 2022 - May 2025**
BS, Computer Science **(**3.80 GPA) | *San Diego, CA*

- **Coursework:** Data Structures and Algorithms, Machine Learning, Operating Systems, Computer Architecture, Database Theory and Implementation, Statistics and Probability, UNIX System Administration, Product Management

WORK EXPERIENCE

Kaiser Permanente | **May 2024 - Aug 2024**
Backend Software Engineer Intern | *San Diego, CA*

- Engineered **Java-based data pipelines** to process and **extract NLP-mined healthcare** data from physician notes, ensuring robust end-to-end data integration while following internal standards and receiving guidance from senior staff within the SDLC.
- Managed over **10 API endpoints** with **Spring Boot** to facilitate seamless communication between internal applications, enhancing **Web API development** standards and adhering to established procedures.
- Implemented efficient data storage and retrieval solutions using **MongoDB/NoSQL**, applying internal conventions to support scalable architectures.
- Constructed a benchmarking framework in **Node.js** to analyze and optimize data pipeline performance, achieving a **30% acceleration in processing speed** while contributing to code and design reviews.
- Applied **SAFe Agile** methodologies to drive continuous improvement in software development and data engineering processes, collaborating with peers, managers, and project leads to gain understanding of tasks and review solutions.
- Addressed critical healthcare data sensitivity and security challenges, supporting reliable disaster recovery strategies in line with internal standards and best practices.

ZolonTech | **May 2023 - Aug 2023**
Technology Intern | *Herndon, VA*

- Built **Python-based automation tools** that eliminated repetitive form processing, cutting manual effort by **40%** and ensuring clients received clear, reliable data.
- Supported business development by researching and preparing content for bids and proposals, setting the stage for successful federal contract pursuits.
- Evaluated and refined proposal documents, including risk assessment and budget/cost analyses, for federal bids valued up to **$70 million.**
- Enhanced the company website to better align with corporate objectives, demonstrating **full-stack improvement capabilities.**
- Investigated **blockchain technology** and delivered technical briefings on its feasibility, regulatory impacts, and potential applications in federal contracts.
- Received recognition for presenting the **best case study threat map** among all intern teams.

PROJECTS

Chess AI with High-Performance Bitboard Implementation

- Developed a fully functional OOP **chess engine** using C++, implementing all standard and special chess rules in a clear way
- Designed and integrated a chess AI leveraging bitboards for efficient board representation and a **move-generation and evaluation system** using **minimax** enabling the AI to analyze positions and make optimal moves and **significantly improving memory efficiency and computational speed**
- Deployed the engine to an **AWS compute-optimized EC2 instance**, achieving a benchmark speed of **300+ million nodes/second** vs 50 thousand nodes/second using the mailbox approach **(6000x more efficient)**

Web Scraping Assistant

- Engineered a **Python-based scraping platform** with **BeautifulSoup** and **requests** to extract structured data from websites
- Built a **React UI with Prism.js** visualization that lets users interactively inspect HTML, highlight elements, and **retrieve precise CSS selectors/XPath expressions**
- Designed a one-click export system that outputs **JSON metadata** (tag, attributes, text, selectors), making scraped data immediately reusable for **downstream analytics and automation tasks**
- Created an **interactive workflow** that bridges manual inspection and automated scraping, significantly reducing the time to identify and extract target data compared to writing raw scraping scripts

TECHNICAL SKILLS AND RELEVANT COURSEWORK

- **Languages**: JavaScript, Typescript, Java, Python, SQL, HTML/CSS, C++
- **Technologies & Tools**: React.js, Node.js, Express.js, MongoDB, MySQL, PostgreSQL, SAFeAgile Framework, Agile Methodology, Web API Development, Extreme Programming, Software Development, Git, GitHub, Docker, Postman, Jira, Microsoft PowerBI, Object-Oriented Programming, Open-Source Projects, AWS Cloud