Ayra Babar

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EDUCATION

San Francisco State University

San Francisco, CA

Bachelor of Science in Computer Science | GPA: 3.91

Expected 05/2027

RELEVANT COURSEWORK

Programming Methodology

01/2025 - 05/2025

- Developed a cache manager in C++ using advanced data structures, applying modular design principles to improve efficiency and scalability
- Applied modular design, debugging, and testing techniques to strengthen problem-solving and reinforce software engineering principles

Data Structures 08/2024 – 12/2024

- Implemented linear and non-linear data structures (lists, stacks, queues, trees, graphs) in Java to efficiently solve computational problems and reinforce algorithmic thinking
- Evaluated algorithm performance by applying Big-O notation, identifying trade-offs between time and space complexity to guide problem-solving approaches
- Developed hash tables and search structures to optimize data retrieval, applying them in a task management system that improved organization and access speed

PROJECTS

The Norwegian Cultural Hub Website (HTML, CSS, JS)

03/2025 - Present

- Designed and deployed a fully responsive cultural website with interactive features and modern UI/UX styling
- Integrated multimedia content and intuitive navigation to increase user engagement and accessibility

Cache Manager (C++)

01/2025 - 05/2025

 Developed a cache system integrating a hash table for O(1) access, a doubly linked list for LRU eviction, and a BST for ordered range queries

Task Management System (Java)

08/2024 - 12/2024

Implemented advanced data structures using Java to handle task prioritization and performance analytics

SKILLS

- Technologies: C++, Java, JavaScript, and HTML with a focus on writing clean, high-quality code
- Microsoft Office Suite (Word, Excel, PowerPoint, Outlook), Google Workspace (Google Docs, Sheets, Slides, Gmail, Google Drive), Zoom
- Languages: Conversational in Spanish and Norwegian

WORK EXPERIENCE

Private Household / Family Care

Oslo, Norway

Personal Caregiver

05/2022 - 04/2023

- Provided daily care and companionship for an elderly couple, fostering emotional well-being
- Assisted with household tasks, meal preparation, and errands while adapting to a new cultural environment

Self-Employed **Private Tutor**

Tracy, CA

08/2017 - 05/2022

• Tutored K–9 students in Math, Language Arts, History, tailoring lessons to individual learning styles

 Supported academic growth by reinforcing foundational concepts, assisting with homework, and challenging advanced learners to exceed grade-level expectations