Khoa Nguyen

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Education

California Polytechnic State University San Luis Obispo, CA
Bachelor of Science in Software Engineering *Expected Graduation: 2026*

Experience

UberSTAR SWE Intern June 2024 – Sep. 2024
Uber *San Francisco, CA*
- Developed a chatbot leveraging an internal service with a JSON-based decision tree structure, implementing logic in JavaScript to enhance automated responses and decision flow.
- Optimized an LLM model to retain conversation history and improved context management by implementing chunk splitting and embedding techniques, leading to more efficient processing and reduced operational costs.
- Integrated multiple endpoints using internal data retrieval methods and developed a wrapper to connect these systems, streamlining backend logic for LLM-based answer retrieval.

High School Intern June 2022 – Sep. 2022
Intel *Folsom, CA*
- Taught an Arduino class to high schoolers. Helped design and simplify basic Arduino circuits and fundamentals for better comprehension.
- Organized a staff e-sport tournament that had 45 participants by making announcements and promoted the tournament through various channels, including social media and email. Designed merch using Photoshop. Exceeded manager's expectations and event was very positively reviewed by employees.
- Weekly meetings with professionals to organize events and work on graphic design of flyers and merch. Learned the ins and outs of the Microsoft suite to effectively manage website and track work progress.

Projects

Java Game Modding | *Java, Junit, PImage*
- Implemented efficient A* pathfinding for in-game entities, optimizing their movement across the game world.
- Designed and introduced new characters, objects, and environments, each featuring unique behaviours and interactions.
- Refactored the entire codebase to adhere to OOP principles, establishing a clear hierarchy for characters and objects, significantly improving code readability and maintainability.

AI PDF Reader | *Python, Flask, PDFminer, OpenAI API, HTML, CSS*
- Developed the entire backend of a web app. Used Python and PDFMiner for text extraction and integration. OpenAI's API to intelligently answer questions based on uploaded PDF content.

Extracurriculars

SWE Career Prep Fellowship Jan 2023 – Present
Uber *Remote*
- Selected as a member of the exclusive 2023 Cohort for Uber Career Prep, representing just 4% of applicants invited to participate.
- Weekly personalized coaching and mentoring from a Software Engineer at Uber.
- Monthly workshops that further improve industry-related skills such as interviewing, data structure and algorithms, and workplace etiquette.

Technical Skills

Languages: Java, Python, HTML, CSS, JavaScript, Go, C++, RISC-V
Frameworks: Flask, Bootstrap
Developer Tools: Git, Arcanist, VS Code, Visual Studio, PyCharm, Arduino, Figma, Adobe Photoshop
Skills: OOP, Version Control, Data Structure and Algorithm, Code Testing, Code Refactoring