

German Wong

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EDUCATION AND CERTIFICATES

California State University, Northridge

Bachelor of Science in Computer Science

Northridge, CA

May 2024

Meta Back-End Developer Certificate

In Progress

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS

Frameworks: Django, React, Flask, JUnit, REST APIs

Developer Tools: Git, GitHub, Docker, Azure

Libraries: Pandas, NumPy, Matplotlib, Seaborn, SciPy, Scikit-learn, TensorFlow, PyTorch

Project Methodologies: Agile, Scrum, Waterfall

EXPERIENCE

AI Automation and Data Intelligence Extern

October 2025 – Present

Extern Inc.

Remote

- Engineered AI pipeline with **Tesseract + PaddleOCR, PyMuPDF, and LlamaIndex RAG** to extract data from 200+ page mortgage blobs, achieving **97% accuracy**
- Built retrieval system using **Mistral/Phi-2**, chunk tuning, and metadata filtering, boosting recall by **28%**
- Led evaluation on 50+ blobs; authored report + **Streamlit UI** for production readiness

QA Automation Intern

Jan. 2025 – Aug. 2025

5HeadGames

Remote

- Built **Python automation framework** to extract frame data from **Baselight/Flame**, auto-calculate filesystem paths, and reduce manual QA workload by **80%**
- Designed **MongoDB** data lake with **CSV/XLS export + thumbnail/timecode previews**, enabling Frame.IO integration and team-wide analytics
- Executed **black-box stress testing** on beta builds; documented **50+ reproducible bugs** and collaborated with devs to improve system stability

PROJECTS

Kitchen Buddy | *React, Django, PostgreSQL, Bootstrap, Azure*

Jan. 2025 – May 2025

- Built full-stack **React + Django REST** app with **multi-filter search** over **500+ recipes**
- Implemented **reverse ingredient search** using **spaCy NLP** and **PostgreSQL full-text**
- Designed UI with **Bootstrap + React hooks**; deployed via **Docker + Azure**

Sleep Disorder Classifier | *Python, Scikit-learn, Pandas, NumPy, Flask, Docker*

Jan. 2025 – May 2025

- Developed **scikit-learn** pipeline with **Pandas/NumPy** to classify 7 disorders across **12K records**, achieving **94% accuracy**
- Engineered **15+ features** using **SHAP** and **PCA**; reduced model size by **60%**
- Deployed via **Flask API** on **Docker** for telehealth integration

ARIA: Interactive Voice Assistant | *Python, OpenAI, Whisper, ElevenLabs, FastAPI*

Aug. 2024 – Dec. 2024

- Engineered real-time voice assistant using **OpenAI GPT-4**, **Whisper STT**, and **ElevenLabs TTS**, achieving **<200ms** latency
- Built **FastAPI** backend with **contextual memory module** retaining session history, improving coherence by **40%**
- Designed **modular plugin system** with **custom voice profiles** and **emotion-aware tone modulation**

LEADERSHIP

Chair, Personnel Committee

June 2023 – June 2024

University Student Union - California State University, Northridge

Northridge, CA

- Led 8 member committee overseeing policies, and performance review meetings for 50+ student staff across 15 USU departments
- Revamped onboarding with digital handbook + interactive workshops, cutting new-hire orientation times by 40% and saving 120 staff hours/semester
- Led passage and implementation of DEI policy, pronoun inclusion guidelines, and workplace bias training

Co-Chair, Finance Committee

Dec 2022 – June 2024

University Student Union - California State University, Northridge

Northridge, CA

- Co-managed \$18M+ annual budget allocated for 32,000 students, reviewed 100+ funding requests worth \$2.5M
- Proposed and secured passage of 15 departmental budgets, including quarterly budget proposals
- Collaborated with 10 committee members to approve high-impact programs (e.g., cultural events, gym upgrades) increasing student satisfaction by 20%