Chengxiang (Eric) Wu

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Education

University of California, Los Angeles (UCLA)   *Sep. 2023 - Dec. 2024*
MEng in Artificial Intelligence   MEng Fellowship Award
Purdue University   *Aug. 2019 - May. 2023*
B.S. in Computer Science & Data Science (Double Major)   Dean's List & Semester Honors all semesters (GPA: 3.91/4.0)

Working Experience

SimpleGen.AI [link]   Bellevue, WA
Founding Software Engineer   *Jun. 2023 - Current*
- Spearheaded the end-to-end development of an AI-driven influencer marketing agent and a YouTube chatbot marketplace, orchestrating Next.js, FastAPI, and Google Cloud to reliably serve thousands of users with near-zero downtime.
- Created an AI-driven influencer outreach agent that can research prospects across 3+ data sources, crafts personalized messages and optimizes cold call emails, boosting MCN efficiency by 100x and securing $1M in pre-seed funding.
- Built a RAG-based YouTube chatbot marketplace with Pinecone, LangChain, and Whisper for 70+ influencers, extending it into a Discord bot (500+ users) with Kubernetes and Pub/Sub to summarize discussions and answer audience questions.
- Implemented CI/CD pipelines using Docker, Kubernetes, and GitHub Actions, reducing deployment times by 40%.
- Deployed telemetry and analytics via Mixpanel and Google Cloud Logging, enabling real-time performance monitoring.
- Integrated Stripe for secure payment workflows, automating subscriptions, and generating thousands in recurring revenue.

ASML   San Jose, CA
Software Engineer Intern   *Jun. 2022 - Sep. 2022*
- Built an advanced GUI tool with ttkbootstrap for XML analysis, integrating tolerance-based verification and hash map-optimized field comparison, reducing processing time by 80% and accelerating bug detection from hours to minutes.
- Integrated over 20 Build Acceptance Tests into the e-beam system, improving wafer inspection reliability by 40%.
- Automated HPC Linux test suite with X11 Bamboo agent for robust quality assurance across 100+ compute nodes.

Institute of Computer Innovation Technology, Zhejiang University   Hangzhou, China
Software Engineer Intern   *June. 2021 - Aug. 2021*
- Fine-tuned a BERT-based intent extraction model for smart Q&A system, improving top-1 response accuracy by 25%.
- Deployed neural network models (RNN/LSTM/MLP) for sales forecasting via an API on a VM, boosting accuracy by 25%.
- Optimized an ML pipeline with automated retraining and cross-validation, improving performance for 2 enterprise clients.

Projects & Research

Bento Design Portfolio Website | 300+ stars, 50+ forks on Github [link]   *Jul. 2024 - Aug. 2024*
- Built modern high-performance Next.js portfolio with SEO optimization, attracting 3000+ unique visitors monthly.
- Introduced seamless Notion CMS with Next.js for dynamic content management, enabling real-time content updates.
- Implemented advanced SSR and image caching techniques, reducing page load time by 40% across all routes.
- Designed responsive mobile-first UI using NextUI and TailwindCSS, achieving 95+ Lighthouse performance score.
- Developed automated dynamic sitemap generation system, improving search engine visibility by 60%.

Cumulative Difference Learning VAE for Time-Series | Published in AAAI [link]   *Nov. 2021 - Feb. 2023*
- Published a AAAI paper, developing a novel time-series generation method with superior benchmark performance.
- Engineered DT-VAE synthetic data generator for COVID-19 data, improving hospital predictive analytics by 40%.
- Implemented TimeGAN and PSA-GAN using PyTorch/TensorFlow, achieving a 30% performance gain over SOTA models.
- Processed healthcare data from 50+ states and 150 counties, building new and robust datasets for ML model training.
- Developed custom performance metrics for time series, including Diverse Trend Preserving (DTP), a clustering-based evaluation method for direct and interpretable assessment of generated samples in time-series generative models.

Skills

Languages: Python, JavaScript, TypeScript, HTML/CSS, Java, R, C, Matlab, SQL, Swift, LaTeX
Tools/Frameworks: Git, PyTorch, Pandas, React, Next.js, Node.js, Tailwind CSS, Flask, FastAPI, Linux, GCP, PostgreSQL