

Andrew Park

Long Beach, CA | AndrewJHPark@protonmail.com | [GitHub](#) | [Portfolio](#)

Summary

Mission-driven AI Engineer skilled in AWS serverless architecture, full-stack development, data pipelines, and LLM integration. Builds scalable AI-powered hiring tools to make job posting and resume creation accessible for small businesses and underrepresented workers. Background in public policy and psychology.

Experience

AI Engineer | WorkOnward (Irvine, CA)

Aug 2024 – Present

- Develop AI-powered hiring tools that improve accessibility for small businesses and underrepresented workers. Build production-ready systems that combine NLP, cloud infrastructure, and user-first design.
- **SMS Job Posting Platform & Admin Dashboard**
 - Built a serverless system for employers to publish jobs via SMS in under 5 minutes (previously hours), adopted by dozens of small businesses.
 - Launched an admin dashboard for reviewing and approving posts, and integrated real-time spam and phone validation with Slack alerts, reducing manual review time by 40%.
 - **Technologies:** AWS, Redis, Python, TypeScript, Azure OpenAI, MongoDB, Twilio
- **Multilingual Resume Generator**
 - Developed an AI resume builder for job seekers with limited digital literacy, decreasing average resume creation time by 70%.
 - Supported five languages (English, Korean, Chinese, Spanish, Russian).
 - **Technologies:** AWS, TypeScript, Azure OpenAI, MongoDB, Twilio
- **Job Scraping Pipeline**
 - Designed a two-phase, multi-threaded scraper to surface hard-to-find job postings from dynamic sites, processing over 10,000 postings with more than 90% parsing accuracy.
 - **Technologies:** Python, Selenium, LLM-based extraction, Multi-threading + async I/O
- **Semantic Recommendation System & AI Chatbot (in progress)**
 - Designing and implementing a next-generation recommendation system using Retrieval-Augmented Generation (RAG) and vector embeddings for candidate-job semantic matching.
 - Building an interactive AI chatbot with Langchain and LLMs to enable personalized, conversational recommendations.
 - Architecting the system to automatically deliver tailored suggestions and matches through chat, email, and SMS—empowering proactive communication and engagement for all users.

- Leveraging Python, Langchain, and Azure OpenAI API for embedding and generation, MongoDB for retrieval.
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Software Engineer Apprentice | 100Devs (Los Angeles, CA)

Jan 2022 – June 2023

- Built a full-stack web application for a client to advertise her Airbnb properties and maintain a blog presence outside of Airbnb's platform.
 - Developed backend data models for property listings and blog posts, and created interactive frontend features for property showcase and content management.
 - Collaborated using agile development workflows including Git version control, code reviews, and sprint planning to deliver a complete client solution.
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Research Asst. | CA Center for Population Research (Los Angeles, CA)

June 2019 – Aug 2019

- Supported research on population trends and immigrant health outcomes.
 - Conducted statistical analysis and data cleaning (R, SQL).
 - Assisted in preparing research findings for publication and grant reports.
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Education

University of California, Los Angeles (UCLA) – Master of Public Policy

Sept 2018 – June 2020

Awards: University Fellowship Award & Franklin D. Gilliam, Jr. Social Justice Award

Purdue University – Bachelor of Science, Psychology

Aug 2012 – Dec 2016

Honors: Spring Semester Honors (GPA 3.9), Fall Semester Honors (GPA 4.0)

Purdue in Germany – CSR 39000 Immigrant Health (Study Abroad, Berlin)

May 2016 – Aug 2016

Technical Skills

- **Languages:** Python, JavaScript, TypeScript, SQL, Java, R
 - **AI/Data Science:** scikit-learn, PyTorch, TensorFlow, LangChain, RAG pipelines
 - **Cloud/Web:** AWS (Lambda, S3, SQS, EC2, ELB, Route53), Docker, Node.js, Express.js
 - **Tools:** Serverless Framework, Pulumi, MongoDB, Redis, Selenium, BeautifulSoup, Git, Stripe, Twilio
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