

HARRY YOON

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PROFESSIONAL SUMMARY

Unusual Career, Unusual Life

I worked on many different things, from physics to AI/ML and Web and mobile app development, and to DevOps. My broad professional experience makes me a more effective engineer.

Unique Experience, Unique Skill Set

I can bring something different to your team. I am a lifelong builder, a passionate problem solver, and a true generalist. I am also a fast learner and I can hit the ground running for any project.

TECHNICAL SKILLS

AI/LLM Development and Context Engineering:

I've been doing LLM development for ~1 year. LLM Chatbot, Prompting, LangChain, LangGraph, LlamaIndex, Pydantic AI, Ollama, Llama.cpp, Fine tuning, RAG, MCP, AI agent, Deep research, Evals, Embeddings, Vector DB, Chroma, Qdrant, OpenAI API, Voice agent.

Web Development, Frontend and Backend:

I've been doing Web fullstack development pretty much my entire life. FastAPI, Flask, Django, Node.js, Express.js, NestJS, ASP.Net, React, Next.js, Angular, Vue.js, Tailwind CSS, Shadcn UI, Material UI, Vite, PostgreSQL, Supabase, MongoDB, Redis, Prisma, SQLAlchemy, REST API, GraphQL, PWA, Web Assembly (Wasm), Nginx, Chrome extension, Web scraping.

Cloud-Native Development and DevOps:

I've been using various services of AWS, GCP, and Azure for many years now. Docker, Kubernetes, AWS Lambda, RDS, Aurora, DynamoDB, Google Cloud Run, CloudSQL, Firestore, BigTable, BigQuery, CosmosDB, CI/CD, CDK, Terraform, Grafana, VPC, SQS, SNS, EventBridge.

Mobile App Development:

I did Android mobile app development for several years. I also did some AR/VR app development. Android, Google Glass, React Native/Expo, Ionic, Flutter, Unity3D, Qt.

Machine Learning/Computer Vision:

I did research on machine learning many years ago. I am also familiar with the modern deep learning/ML tools. PyTorch, TensorFlow, Scikit-Learn, NLTK, SpaCy, NumPy, Pandas, Matplotlib, OpenCV, Hugging Face, Data analysis, ETL, Apache Spark, Kafka, Airflow.

Programming Languages:

I've used many different programming languages over the years, partly due to job requirements. C/C++, C#, Golang, Python, Javascript/Typescript, Rust, Ruby, Java, Scala, Kotlin.

SELECT WORK EXPERIENCE

Sr. Fullstack Developer, OpenTable, 2018-2019.

Migrated the legacy media server written in Clojure into C#/.Net. Designed/implemented a new media metadata API server in ASP.Net Core, Postgres/MongoDB. Created media-serving React components (TS). Worked on a cross-team AI project to automatically rank/review UGC photos.

Sr. Backend Developer, Yahoo!, 2007-2010.

Created an automatic keyword generator, for the Yahoo Small Business e-commerce customers, based on their sales and Web search data. Implemented a KPI dashboard using the internal business data for the upper management (Hadoop). Created a rule engine to automatically update the business logic based on Yahoo SMB's business requirements. Worked on the checkout system (PHP), and re-designed and re-implemented its API service, according to the REST paradigm.

Sr. Software Developer, PeopleSoft, 2004-2005.

Worked in the core team, on creating a new infrastructure to help the engineering migrate HR apps to the Web. I was responsible for the “data table” component (C++/Javascript). The requirement was that we should be able to dynamically display portions of data consisting of millions of records, e.g., without loading the entire data into browser and without incurring too much latency.

Software Developer, Brio Software, 2000-2003.

Participated in the migration of the legacy desktop business intelligence app to the newly designed BI Web service (C++, Java). Learned and effectively used now-obsolete technologies like CORBA. Also worked on both frontend and backend layers of a new “thin client” Web app (Java Servlet/JSP).

EDUCATION

Ph.D. in Computational Physics, 1995

University of California, Santa Cruz, CA

M.S. in Condensed Matter Physics, 1990

Pohang Institute of Science and Technology, Pohang, Korea.

B.A. in Electronics Engineering, 1988

Seoul National University, Seoul, Korea.

OTHER ACCOMPLISHMENTS

Inventions and Patents (2005-2012)

I was awarded 4 U.S. patents in areas of business methods and software. I worked at an IP law firm in Silicon Valley prosecuting patent applications on behalf of companies like Apple and Cisco.

Book Publications (2021-2025)

I wrote a number of books on physics and software development. Most of my books on programming, on Python, Go, Rust, etc., ranked as Amazon #1 bestsellers in their respective categories.