HARRY YOON

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PROFESSIONAL SUMMARY

Unusual Career, Unusual Life
I've worked on many different things in my life, from computational physics to AI/ML and Web full-stack and mobile app development, and to DevOps. My unusual professional experience gives me a unique perspective on different ideas and subjects and makes me an effective engineer.

Unique Experience, Unique Skill Set
I can bring something different, from my unique professional experience. I consider myself a true problem solver. I enjoy figuring things out, often from unconventional viewpoints. Thanks to my diverse experience, 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. I've learned quite a bit, and now I have my own perspective on this rapidly evolving technology. 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, Weaviate, OpenAI API, Whisper, LiveKit.

Web Development, Frontend and Backend:
I've been doing Web programming pretty much my entire life. FastAPI, Flask, Django, Node.js, Express.js, NestJS, ASP.Net, Actix Web, Axum, Vite, React, Next.js, Angular, Vue.js, Jest, Tailwind CSS, Shadcn UI, Material UI, Chrome extension, PostgresSQL, Supabase, MongoDB, Redis, SQLite, Prisma, SQLAlchemy, Entity Framework, Diesel, REST API, GraphQL, Web Assembly (Wasm), Apache HTTP server, Nginx, Web scraping, Puppeteer, Cheerio, Scrapy, Crawl4AI.

Cloud-Native Development and DevOps:
I've been using various services of AWS and GCP for many years now. Docker, Kubernetes, AWS Lambda, RDS, Aurora, DynamoDB, Google Cloud Run, CloudSQL, Firestore, CI/CD, CDK, CloudFormation, Terraform, Grafana, Prometheus, Github Actions, IAM, VPC, ELB, EKS, ECS, SQS, SNS, EventBridge, API Gateway, GAE, GCE, GKE, BigTable, BigQuery, Vertex AI.

Mobile App Development:
I did Android mobile app development for many years. I also did some AR/VR app development. Android, Google Glass, Microsoft HoloLens, 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 deep learning/ML tools. PyTorch, TensorFlow, Scikit-Learn, NLTK, SpaCy, NumPy, Pandas, MatPlotLib, Seaborn, OpenCV, Hugging Face, Data analysis, Big data, 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, Julia, Java, Kotlin, Ruby, Haskell.

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 at 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 Physics, 1995
University of California, Santa Cruz, CA

M.S. in 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 four United States patents in the areas of business methods and software. I am also a registered patent agent before the U.S. Patent Office. I briefly 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, and self-published, a number of books on the subjects of physics and software development. Most of my books on programming, on Python, Go, Rust, etc., ranked as Amazon "bestsellers" in their respective categories. I've also been working, for the last few years, on translating Einstein's original papers and books in German to modern English (for both physicists and non-physicists).