

Tony Edvalson

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Software engineer with 7 years of experience. Proven success in managing petabyte-scale systems at Google Play, conducting ML research at IBM, and leading companies as a founder.

Experience

Google Play ▪ Software Engineer III 2021 – Present

Managed multiple large-scale data pipelines and backend services for Android's flagship app store.

- Designed and implemented large-scale ETL pipelines using user data and machine optimization techniques, reducing app install times by 30%.
- Took on the role of technical lead, oversaw issue triage, led multi-quarter development projects, and coordinated cross-team efforts to innovate and meet new international compliance requirements.
- Mentored new team members and doubled the amount of documentation to improve onboarding and project maintenance.

IBM ▪ Software Developer Intern Summer 2021

Coordinated across departments to develop novel deep learning models and AI solutions.

- Enhanced long-term weather forecasting capabilities using Tensorflow and IBM cloud tools, utilizing dimensionality reduction, deep learning, and extreme value theory. The new model tripled the accuracy of predicting extreme weather events 2 months in advance from 13% to 42%.

PickUp Patrol ▪ Founder 2014 – 2021

Created an industry-leading cloud-based web application and mobile app for K-12 schools. The company now has 7 full time employees and serves over 650 schools internationally.

- Led product inception, frontend and backend design, sales, and pitching to investors.
- Implemented a distributed and highly scalable architecture that supports 550,000 users globally.
- Developed new products in response to the COVID-19 pandemic to meet emerging needs in the ed-tech market. Bringing a 270% increase in sales year-over-year, and improved student safety.

Projects

Apollo ▪ AI Music Generation 2024

Apollo uses ML and signal processing techniques to generate music. It utilizes variational autoencoders, modified ResNet blocks, and specialized loss functions to generate music within a latent representation.

Bolt ▪ Interactive LLMs for Web Development 2023

Bolt is a coding assistant that allows users to develop websites in plain English. It can edit, correct errors, and implement complex interactions from scratch, like modals, shopping carts, and checkout functionality.

Education

Rochester Institute of Technology – BS Computer Science

Skills

Languages – Java, Python, SQL, CUDA, JavaScript, TypeScript, Go

Frameworks & Tools – Azure, Keras, NumPy, Pandas, Azure, React, Angular