

# WILLIAM KY ONG

B.S. Electrical Engineering | ongdevlab@gmail.com | 630-703-8208 | Callsign: KD9OKJ

## Competencies

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Languages: Python, F#, SQL, Spark, C++, Matlab, Java, R, Mandarin  
Technologies: LLM, Azure, Bloomberg, Keras, Torch, JupyterLab, MS SQL, .NET, JMP

## Professional Experience

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Developer Advocate – Software Platform Adoption/Data Science Cincinnati, OH  
**OngDevLab- Contract- Database Development** September 2023 – Present  
Cloud-native Postgres Startup

- Current Responsibilities:
  - Developing strong partnerships with enterprise customers and small businesses.
  - Delivering unique data-driven strategies to grow cloud.tembo.io signups.
  - Deployed custom LLM algorithm to grow following on Twitter to 1.000+ followers

Solutions Architect – Manufacturing & Social Media DS/ML Senior Manager Cincinnati, OH  
**The Procter & Gamble Company** Mar 2021 – September 2023  
Consumer Products & Goods (CPG) Conglomerate

- Led Digitization Landscape Studies and project delivery across Nine P&G Internal Accounts
  - Managed Relationships with nine BU's in MFG, IT, R&D, Brand, Sales, and Legal verticals
  - Delivered over 38 projects and three companywide scaled platforms.
  - Trained 20+ teams and 100+ individuals on data engineering best practices
  - **Resulted in \$15 Million+/yr in productivity savings**
- Led architecture design and deployment of audio classification ML model for customer studies
  - Won P&G audio classification water detection hackathon with a 98% F1 Score with VGG19
  - Scaled model in production at Boston US, Reading UK, and Kronberg, DE for Gillette
  - Reapplied production pipeline for Latin America consumer study consumption testing
  - **Resulted in > \$10 million in water savings opportunities and >30 FTE effort reduction/yr**

Solutions Architect – TikTok Full Stack Development and Data Science Chicago, IL  
**OCL Media, LLC.** Jan 2018 – Mar 2021

- Developed data models for @will.ong, @alexong68, and @poissonofficial
- Delivered >3 Billion Impressions and over 2 Million Organic Followers Total

## Education

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University of Cincinnati – M.S. Finance Jan 2022 – Present  
Missouri University of Science & Technology – B.S. Electrical Engineering Aug 2017 – Dec 2020

- Focus: Computer Vision, Electromagnetics, Power Electronics
- Research: Microwave Thermography, Melanoma Classification, Social Media Scaling
- 4.0 GPA Valedictorian, Summa Cum Laude, Tau Beta Pi Chapter President, Grainger Power Award

## Interests

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Music & Video Production – Amplifiers – Origami – 3D Printing – Basketball – Photography – Culture

## Additional Large Projects

Coordinated paper production analytical energy savings and sustainability program

- Developed 98% accurate model of paper machine energy use using Python
- Built dashboard in Power BI with Databricks Backend to track energy use
- Implemented data validation strategy for water, electricity and gas data
- **Resulted in \$3.8 million in energy savings opportunities in papermaking**

Deployed SharePoint to Azure DataBricks Data Pipeline tool that currently serves 50+ teams

- Lead requirements and gathered diverse user needs to create one tool to serve all
- Consulted for IT, R&D, and Manufacturing divisions on per-use-case deployment
- Implemented tracking, satisfaction, and ongoing feedback systems for CI/CD
- **Resulted in 80% productivity gain for .csv automated ETL to Databricks and >50 new users**

Led exploration and development of manufacturing master data search for P&G

- Defined data model for Papermaking sector manufacturing equipment
- Developed integrated tools for process engineers using Databricks, .NET, and Power BI
- Scaled discovery effort to target creating a universal frontend for easy data search
- **Resulted in 90% effort reduction for data exploration tasks in Proficy and GE Historian**

## Projects by Vertical

Marketing

- TikTok LLM/Automatic growth algorithm to scale 0->2.3 Million Followers
- Twitter LLM/Automatic growth algorithm to scale 0-> 1,000 in less than three weeks
- Competitive analysis visualizations for CPG sector
- Custom IoT consumer testing razor- Gyroscope sensor and microphone sensor

Manufacturing

- Data analysis and Visualization tool for EDA in manufacturing lines
- Image Classifiers for product quality measurement
- Drift detection for centerline analysis

IT

- Databricks integration for manufacturing data and R&D data
- ETL pipelines from MSFT tools to Databricks

R&D

- Audio classifier for water detection – 98% F1

Legal

- LLM policy and safety/guardrail prompting

Sales

- LLM models for customizing advertisements to different vernaculars based on region