

Kevin Davis

Thousand Oaks, CA

 kevinskii.dev |  |  |  |  [redacted] |  [redacted]

SUMMARY

- 20+ yrs regulated cardiac device & ML engineering; led cross-functional teams (5–15) through FDA submissions.
- Deep .NET / Python; prod ML (TF, PyTorch, Spark) on Azure; built data/ML pipelines accelerating analysis.
- Shipped several products improving diagnosis & therapy delivery; mentor-oriented technical leadership.

SKILLS

Core: .NET, C#, Python, ML (TF/PyTorch/Spark), Azure (Databricks, CI/CD), Data Eng, SQL, Docker, Linux
Also: F#, ANTLR, Git, Parquet, RDF/OWL, XGBoost, AWS (select), C/C++, HTML/CSS, Java, Kubernetes, CUDA, LLMs

EXPERIENCE

Assoc. Research Fellow—Abbott Laboratories 2017–Present

- FDA-approved CNN ECG classifier (98% diag accuracy) for *Assert IQ™* ICM family.
- Deployed ECG ML suite (CNN, XGBoost): rhythm, noise (95%), risk stratification.
- Built Azure/Databricks data lake & pipelines; cut analysis cycle time weeks→days.
- *VF Therapy Assurance™* algorithm + simulation (millions ECGs in minutes); shipped in *Gallant™* ICD.
- Tech lead; instituted CI/CD, review, reproducible ML workflows.

Principal Software Engineer—St. Jude Medical (Abbott) 2003–2017

- Built high-throughput telemetry parser (10,000× faster than existing); core analytics asset.
- Authored 2 test frameworks (-75% test dev time); still used 15+ yrs later.
- Led architecture & verification across multiple ICD/CRM product lines.
- Co-authored several HEOR publications (data science / engineering).

EDUCATION

1999–2003 B.S. Computer Engineering at **Cal Poly - San Luis Obispo** (GPA: 3.03/4.00)
Graduated in 3.5 years while working part-time. Education fully self-funded.

MISC.

Outstanding Research Team Award	Awarded to 1 team (max 4 members) per year	2025
Member, Volwiler Society	Abbott's most distinguished scientists & engineers	Inducted 2024
Certified Cardiac Device Specialist	Heart Rhythm Society	2005–2015
Reserve Sheriff's Deputy	L.A. County Sheriff's Dept.	2005–2009
Sonar Technician	U.S. Navy Submarine Service	1995–1999

PUBLICATIONS & PATENTS

- 11+ peer-reviewed publications (cardiac device analytics, HEOR). Full list: kevinskii.dev/cv
- Named inventor on 2 issued US patents; 10+ pending applications. Details: kevinskii.dev/cv