

ARNOLD ABRAHAM

SOFTWARE ENGINEER

✉ iarnoldabraham@gmail.com

📞 +49 155 10451293

📍 Erlangen, Germany

.linkedin linkedin.com/in/arnoldabraham

github github.com/arnold-abraham



Experience

Software Engineer – Working Student

Jul 2023 – Jun 2025

Siemens Logistics (now Vanderlande), Nuremberg, Germany

- Migrated two Java-based enterprise applications from Oracle to PostgreSQL, ensuring data integrity and seamless system compatibility.
- Developed backend features and optimized database interfaces to enhance performance and maintainability.
- Automated installation workflows (JRE, PostgreSQL, environment setup) using Pascal scripting, reducing setup effort by 70%.
- Built a scalable data pipeline for predictive maintenance integrating ML models with real-time industrial monitoring.
- Implemented an asynchronous Python-based data acquisition system for real-time monitoring of geared motors.
- Collaborated with cross-functional engineering teams to integrate predictive monitoring into production workflows.

Product Engineer

Sept 2021 – Sept 2022

IBS Software, Kochi, India

- Developed Java/Spring backend components for an airline crew scheduling platform used by LATAM and Qantas.
- Participated across the SDLC including design, implementation, testing (JUnit), deployment, and production support.
- Created and optimized SQL scripts for performance-critical workflows.
- Conducted code reviews and ensured adherence to engineering best practices.
- Collaborated with PM, QA, and UI teams to deliver high-quality releases on schedule.

Education

MSc Data Science

Oct 2022 – Jul 2025

University of Erlangen–Nuremberg, Germany

- Thesis: Predictive Maintenance for Electrical Panels: Hotspot Forecasting and Anomaly Detection Using Thermal Data (Siemens).

B.Tech Computer Science and Engineering

Aug 2017 – Jul 2021

APJ Abdul Kalam Technological University, India

Technical Skills

Languages: Java, Python, SQL, JavaScript, VBA

Frameworks: Spring Boot, Spring, Hibernate (JPA), React, JUnit

Tools & Platforms: Git, GitLab, Bitbucket, Docker, AWS, CI/CD, JIRA, Confluence

Databases: PostgreSQL, Oracle, InfluxDB

Core Competencies

- Backend Development ▪ Distributed Systems ▪ REST APIs ▪ Object-Oriented Design ▪ Data Structures & Algorithms
▪ SDLC ▪ Unit Testing ▪ CI/CD ▪ ML & Time-Series Forecasting

Languages

English (C1 – Fluent) ▪ German (A1 – Basic)