



ALEXANDER SCOTT

Principal Software Engineer - Senior Level

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PROFESSIONAL SUMMARY

Accomplished Principal Software Engineer with over a decade of expertise in architecting and delivering robust software solutions. Skilled in driving system optimizations, enhancing application performance, and leading diverse engineering teams to achieve strategic objectives. Committed to fostering innovation and ensuring regulatory compliance in high-stakes environments.

WORK EXPERIENCE

Principal Software Engineer - Senior Level 📅 Feb / 2018-Ongoing
WidgetWorks Inc. 📍 Denver, CO

1. Architected mission-critical software systems to ensure seamless operations in a 24/7 wafer manufacturing facility.
2. Designed and implemented a comprehensive system for SAP product costing, integrating with legacy systems for enhanced compliance.
3. Developed relational databases with robust maintenance utilities to support data integrity and accessibility.
4. Created a centralized communication platform for factory operations, improving information flow and reporting accuracy.
5. Automated work-in-process transactions, leading to a significant reduction in paper usage and operational bottlenecks.
6. Established a tracking system for non-conforming products, enhancing quality control and minimizing waste.
7. Led the initiative to partition the MES database, optimizing data management across multiple fabrication facilities.

Principal Software Engineer 📅 Feb / 2015-Feb / 2018
Cactus Creek Solutions 📍 Phoenix, AZ

1. As Principal Software Engineer for Teleflex's Vascular division, I lead the design and development of innovative vascular navigation systems.
2. Oversaw the VPS G4 system, enhancing catheter positioning accuracy while reducing radiation exposure for patients.
3. Ensured compliance with regulatory standards through rigorous testing and validation of software components.
4. Collaborated with cross-disciplinary teams to deliver high-impact medical devices that save lives daily.

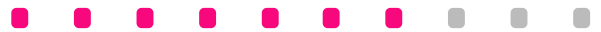
EDUCATION

Master of Science in Computer Science 📅 Feb / 2012-Feb / 2015
University of California, Berkeley 📍 Seattle, WA

Focused on software engineering, algorithm design, and system architecture.

SKILLS

Scala Programming



Objective-c Development



Perl Scripting



Mysql Database Management



Sqlite Database Management



INTERESTS

🎨 Art

🤝 Volunteering

🌲 Hiking

🧘 Yoga

STRENGTHS

🔍 Criticality

📋 Detail-oriented

🤝 Diplomacy

😊 Enthusiasm

LANGUAGES



English



Italian



Japanese

ACHIEVEMENTS

★ Led a cross-functional team to develop a cutting-edge vascular navigation system, enhancing procedural accuracy by 30%.

★ Architected a high-availability software system for wafer manufacturing, improving operational efficiency by 25%.