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Summary

Software Engineer with 15 years experience and a masters degree in Computer Science.

Experience



Principal Software Engineer

Shopify

May 2022 - May 2023 (1 year 1 month)

- I was on the engineering team at 6 River Systems, which was owned by Shopify Inc.
- Node.js (Typescript) development for a warehouse robot running on ROS (Robot Operating System).
- Android development in Kotlin and Typescript (webview) for Zebra TC21 mobile device
- Main project: transformed large Node.js codebase to run in an Android (Chrome) webview
- Implemented a self-updating mechanism for the Android app in Kotlin
- Developed for backend services using Kubernetes, Terraform and Docker on Google cloud (GCP)



Software Engineer

Thermo Fisher Scientific

Nov 2021 - May 2022 (7 months)

- C++ and Postgres development on Windows 10 for Attune NxT Flow Cytometry product
- Updated software to be compatible with new REST APIs (device registration and file transfer)
- Improved company's software engineer hiring process



Senior Software Engineer

Datalogic

Dec 2015 - Nov 2021 (6 years)

- Android app development in Java & Kotlin for OEM Android devices
- Electron/Angular and C# development for Windows-based software products
- Served as the team technical lead for last 3 years or so
- Design and architecture work - working on a small teams means lots of requirements engineering, design, and idea generation is up for grabs. I found myself filling these roles often.
- Developed an Electron app using Javascript, node.js, Angular and Redis DB. Deployed as a proof of concept web app as well (Scan2Deploy Studio)
- Used cloud infrastructure to deploy web applications (dokku, Docker, Digital Ocean)
- Worked on system-level Android applications in Java and Kotlin (Scan2Deploy, DXU, SoftSpot).
- Knowledgeable with the Android Open Source Project (AOSP) source code and hidden APIs
- Built a developer documentation site for the company (<https://datalogic.github.io>) based on Docusaurus and React
- Lead effort to get other development teams in the company to document their APIs on the site
- Worked on Windows CE applications in C and C# (SoftSpot, Wi-Fi SDK, Wi-Fi control panel, scanner SDK, sample applications, TCP/IP over USB, cesync library)

- Worked on Windows 7/10 desktop software in C# and Electron (DXU Desktop)
- Develop SDKs for Xamarin, Cordova and React Native frameworks for Android development
- Serve as developer advocate - supported developers by answering questions about API usage on developer forum and on Github, creating useful sample apps, advocating internally for developer-requested features
- Served as team DevOps engineer - setup and maintained Gitlab CI/CD infrastructure
- Conducted technical interviews for new hires (20 or so)
- Administered Android Enterprise Zero Touch enrollments (OEM view)



Senior Software Engineer

L3 Technologies

Jan 2010 - Dec 2015 (6 years)

- Embedded C++, Java, C#, Qt development for LINc aircraft/radio communication system (Linux)
- Designed and developed C++ software on RedHat Linux to provide VoIP calling, presence information, and recording functionality to the LINc system.
- Helped design and develop a Software Development Kit (SDK) for LINc system using C++ and Boost.
- Developed C-130 aircraft simulator software using C++ and C#. Interfaced with ARINC-429, Digital I/O and Analog I/O devices via UEL hardware
- Linux device driver troubleshooting and integration



Software Engineer

Avaya

Apr 2006 - Jan 2010 (3 years 10 months)

- Embedded C++ on Linux development on a large codebase for Avaya Communication Manager (CM) telephony server, focusing on SIP, H.323, and ISDN protocols
- Performed rotation as a Tier 4 Escalation Support Engineer - gathered and analyzed log files, provided custom patches to critical product defects, and analyzed traffic on customer data networks.

Education



University of North Texas

Master of Science, Computer Science

2002 - 2005

Licenses & Certifications



Embedded Systems Engineering - Graduate Certificate (9 credit hours) -

University of Colorado Boulder

Skills

React.js • Angular • Continuous Integration and Continuous Delivery (CI/CD) • Jenkins • Gitlab • CircleCI • Device Drivers • Kotlin • Terraform • Kubernetes