Colin Tucker

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Experienced software developer with 20+ years experience working as a software engineer in the UK and USA. 6+ years of native Android experience, plus extensive web, Java desktop, and Java backend development. Proven history of developing cutting edge scalable applications, leading small teams, and mentoring others.

CORE QUALIFICATIONS

- Native and hybrid Android app developer, proficient in Kotlin, Java and JavaScript
- Experienced in cross-platform software development environments, working alongside iOS, Web and Desktop teams to ensure product consistency.
- Skilled at writing efficient, maintainable, testable, reusable code
- Experienced in performance tuning and scaleability testing

WORK EXPERIENCE

FangJet LLC   Jan 2021 – Current
Freelance Software Engineer

- Android and web software development contractor
- Worked on an app that streamed video of a person presenting at a whiteboard, with video from the Android camera that was processed in real-time on the device using OpenCV native code and streamed to a web conference such as Zoom and WebEx, with the presenter removed from the shot.
- Designed and developed an Android launcher for the elderly / vision impaired
- Developed an Android app with on-device voice recognition with wake word detection

ThinkRite Inc, Fort Lauderdale, FL   Mar 2011 – Jan 2021
Staff Software Engineer / Android Team Lead

- Lead Android developer, working in a small team primarily on Betr Meetings, a productivity app that allows users to manage their calendar and join conference calls and attend meetings.
- Coordinated design and development with the iOS and Web teams, Product and QA departments.
- Used the Twilio Voice SDK to develop a voice and video conferencing solution for users to attend meetings using our app (with cross platform compatibility with iOS and Web)
- Used and promoted the use of JUnit, Mockito and other unit testing methodologies.
- Worked with native libraries using the Android NDK
- Championed the use of Continuous Integration within the organization. I installed and configured Jenkins servers and made use of GitLab pipelines and Docker to run unit tests before code review.
- Worked on an IBM Soft Phone Android app, that allowed IBM employees to make business VoIP calls using PJSIP the library for call control
- Experienced with Camera, BluetoothLE, Telephony, Google Maps, Firebase, OAuth and more
- Experienced with many Jetpack components such as navigation, data binding, life cycle, work manager, etc
- Designed and implemented advanced bespoke UI components such as a custom calendar Ui.
- Wrote clear and concise technical and end-user documentation
- Developed hybrid portions of the app in Javascript using the Vue.js Javascript Framework
- Implemented push notifications with both Firebase and also with Pusher (3rd party push notification service)
- Integrated debugging and crash reporting services and analytics using Crashlytics, Raygun and MixPanel.

- Worked under an Agile software design methodology. Played an active role in sprint planning, retrospectives and organized the Android team sprint demos.
- Integrated the app with the AT&T Conference Call Gateway (CCGW) to provide features such as active speaker, and host controls such as mute-all, waiting rooms, drop leg, terminate conference and more.
- Wrote an Exchange Web Service (EWS) component to retrieve and update calendar events via the exchange protocol (for example Office 365) and perform name and phone number lookup.
- Developed an Android voicemail app called ThinkRite Voice Client, used by IBM employees and external customers to manage their IBM Unified Messaging voicemail.
- Conducted technical interviews and mentored junior devs.
- Presented "Lunch-and-Learn" sessions to teach colleagues about topics such as Test Driven Development (TDD) , code review, version control, coding best practices, and more.
- Wrote a C# desktop app prototype to explore custom window design and animation techniques.

VoiceRite Ltd, Portsmouth, Hampshire, UK   Oct 2001 - Mar 2011
Senior Systems Engineer

- Lead developer of the VoiceRite Client, a multi-platform Eclipse RCP based voicemail and telephony application for the IBM Unified Messaging voicemail platform. It runs as a plugin within IBM Lotus Notes or Sametime, and also as a standalone application.
- Troubleshooted application issues from the client to server side, such as by analyzing application logs and traces and telephony traces including SIP, QSIG, ISDN protocols.
- Experience of DB2 and IBM WebSphere Application Server tuning, troubleshooting and configuration.
- Responsible for new feature development as well as bug fixing. Projects include modifying the application to communicate with the backend WebServices over SSL and using the IBM Intranet password for mailbox login. For both projects I worked with one other developer to architect a solution that conformed to strict IBM security standards.
- Travelled extensively worldwide installing and upgrading IBM Unified Messaging at customer sites, working with on-site telephony engineers (Siemens, Avaya, Cisco, etc) to set up state of the art voicemail servers. A big install often consisted of multiple IBM pSeries servers running AIX with high levels of redundancy and "five 9s" reliability.
- Created and improved software and operating procedures for system monitoring, recovery, backup and optimization.

Department of Applied Mathematics   May - Sep 2000
University of Colorado, Boulder, CO.
Java Programmer

- After achieving a 3.88 GPA in my first semester at the University of Colorado, I was offered an internship for a software project called the Mathematical Discussion System.
- We built a tool for presenting a mathematical text online. I wrote a feature that enabled users to embed discussions, including complex mathematical notation, anywhere in the website text.

EDUCATION

Sudbury Upper School (United Kingdom)
A Levels in Business Studies, Geography and Mathematics

University of East Anglia (United Kingdom)
2:1 BSc Hons in Computer Science 2001

The degree included a year abroad at the University of Colorado, Boulder where I also interned at the Department of Applied Mathematics.

PROFESSIONAL CERTIFICATIONS

IBM DB2 Certified Database Associate - DB2 10 [2014]
IBM Sametime Unified Telephony Professional [2010]
IBM Certified Specialist - pSeries AIX System Admin [2004]

PERSONAL INTERESTS

I enjoy playing Tennis and chess. I enjoy the outdoors and like to mountain bike, climb, snowboard, and trail run