

Baron Khan

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Professional Profile

Cisco software engineer with over two years' industry experience in C++ and Python, looking for a new challenge.

Core Competencies

Software Engineering | Embedded Systems | Network Programming | Video & Audio Processing | Presentations

Key Technical Skills

Languages: C++ | C | Python | JavaScript

General: Git | Docker | Linux | Android

Work Experience

Sep '18-Present:

Software Engineer at Cisco | London, United Kingdom

Software Engineer III (May '20-Present) | Software Engineer II (Sep '18-Apr '20)

- ◆ Developing the Cisco Meeting Server; coding in C++ and Python; feature development, bug fixes & testing.
- ◆ Responsible for the maintenance of the Meeting Server's MP4 recording and RTMP streaming components.
- ◆ Lead architect and developer for the latest SIP-based recording and streaming components for version 3.0.
- ◆ Working with the following protocols: SIP, SDP, RTP, RTMP; tools include: Git, Docker, Wireshark, Jenkins.
- ◆ Regularly present engaging talks and demonstrations; presented during several company hackathon events.
- ◆ Innovations include live meeting subtitles; a recording recovery tool; anonymity mode and background blur.

Apr '17-Sep '17:

Software Engineering Intern at Cisco | London, United Kingdom

- ◆ Worked on the Cisco Webex Board (formerly the Spark Board); added voice recognition interface framework.
- ◆ Contributed several bug fixes for the Cisco Webex Board Android-based user interface; added new unit tests.
- ◆ Transferred to the Cisco Meeting Server team; created video and audio analysis tool for media & layout tests.
- ◆ Actively coded in C, C++, Python, and Java; regularly utilised Git, Jam & Docker; gave several presentations.

Jul '16-Sep '16:

Programming Intern at NaturalMotion | Oxford, United Kingdom

- ◆ Coded in C++ for the AAA mobile game, Clumsy Ninja (on iOS/Android); used Visual Studio & TortoiseSVN.
 - ◆ Contributed to the Winter 2016 update for Clumsy Ninja, adding bug fixes and creating new in-game events.
 - ◆ Created the Clumsy Ninja Event Tool; program for easily creating new events for Clumsy Ninja; coded in C#.
 - ◆ Member of the winning team in the company's 2016 hackathon; created a VR experience with Unreal Engine.
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Education and Qualifications

MEng 4YFT:

Imperial College London – Electronic and Information Engineering (2014-2018)

- ◆ 1st Class Honours Degree; integrated master's degree with computing focus
- ◆ Undergraduate Teaching Assistant: C++ Software Engineering (2016-2017)

3 A Levels:

The Latymer School – Mathematics (A*), Physics (A), Chemistry (A) (2013)

9 GCSEs:

St John's Senior School – A* in English and Maths (7 A*s and 2 As) (2011)

Coursera:

Cloud Computing | Natural Language Processing | Neural Networks & Deep Learning

Business:

Economics (A at AS Level) | Accounting (Imperial) | Management (Imperial Horizons)

Personal Projects

- ◆ **N.O.E.L (July 2020):** Bluetooth remote-control hexapod running on an Arduino Nano, programmed in C++.
 - ◆ **GitGudCommit.com (May '18-Feb '19):** Suite of tools written in C++ and JavaScript for improving the quality of Git repositories; includes a Git client hook and a web application utilising WebAssembly, jQuery & Node.js.
 - ◆ **Life at Sea (Jun '17-Aug '18):** Android/iOS game with realistic physics; features TCP networking multiplayer.
 - ◆ **Voice Commands with WordNet (Oct '17-Jun '18):** 1st class final year project; a Java library for easily adding voice commands to applications and games using NLP; works entirely offline; created Android demo.
 - ◆ **Pascal – Room Automation Assistant (Jul-Sep '17):** A Raspberry Pi bot resembling an Amazon Echo device; provides small talk and voice-control of lights and fans; created Android app; written in Python & Java.
 - ◆ **Resize (Apr-Aug '14):** Fast-paced arcade game on Android/iOS devices; features online high-score board.
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Other Details

Interests Include:

Mobile Games Development | Console Gaming | Football

Miscellaneous:

Languages: English (native) | Full, Clean Driving License

Portfolios:

github.com/BaronKhan | tiny.cc/BaronKhanApps

References are available on request
