

# Baron Khan

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## Professional Profile

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Dynamic and competent student with skill sets in computer science and electronics. Able to work equally well both as an integral member of a team and autonomously as required, having acquired experience in the technology industry, utilising initiative to make strong decisions and remain focused in challenging, fast-paced environments.

### Core competencies include:

Software Engineering | Embedded Systems | Game Programming | Robotics | Digital Electronics | Presentations

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## Key Technical Skills

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- ♦ **Programming Languages:** C; C++; C#; F#; Python; Java
- ♦ **Other Languages:** PostgreSQL; ARM/MIPS Assembly; Verilog
- ♦ **General:** Git; Visual Studio; LaTeX; Microsoft Office; Windows; Linux

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## Work Experience

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### Apr '17-Present      Software Engineering Intern at Cisco

- ♦ Working on the Cisco Spark Board development team, adding voice recognition and control to the Spark Board
- ♦ Contributed to various bug fixes related to the Spark Board media framework and the application user interface
- ♦ Working on the Cisco Meeting Server team, creating an RTP sessions video and audio analysing tool for CMS

### Oct '16-Mar '17:      Undergraduate Teaching Assistant at Imperial College London (Part-Time)

- ♦ Supporting first-year students with their C++ software engineering courses in the computing labs

### Jul '16-Sep '16:      Programming Intern at NaturalMotion

- ♦ Assisted with various programming projects, including coding in C++ for the AAA mobile game "Clumsy Ninja" and contributed to the latest update with bug fixes and new events, while writing new development tools in C#
- ♦ Created the Clumsy Ninja Event Tool, a program for easily creating new events for Clumsy Ninja; coded in C# using the .NET Framework; decreased event-creation turnaround time from one whole day to just 10 minutes
- ♦ Implemented new tracking metrics for rewarded video ads and completely overhauled the entire debug menu
- ♦ Integral member of the winning team in the Q3 hackathon creating the VR experience, "Posing with Friends"

### June '11:      Work Shadowing at British Telecom

- ♦ Assisted in fault tracking and resolution in transmission systems, performing all tasks to the highest standard

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## Education and Qualifications

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<b>MEng 4YFT:</b>	Electronic and Information Engineering (2014-2018) – <i>Imperial College London</i> <b>First year – 1<sup>st</sup>; Second year – 1<sup>st</sup>; Introduction to Management Course (Distinction)</b> Jointly taught by the Electrical Engineering department and the Department of Computing
<b>3 A Levels:</b>	Mathematics (A*), Physics (A) and Chemistry (A) (2013) – <i>The Latymer School</i>
<b>1 AS Level:</b>	Economics (A) (2012) – <i>The Latymer School</i>
<b>9 GCSEs:</b>	Including A*s in English and Maths ( <b>7 A*s and 2 A's</b> ) (2011) – <i>St John's Senior School</i>

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## Individual Projects

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- ♦ **Fir – Conversational AI Bot (Jun-Jul 2017):** A portable conversational robot resembling Siri and Alexa; coded in Python running on Raspberry Pi with microphone and speaker; uses the snowboy and Houndify API
- ♦ **Job Watch (Nov-Dec 2016):** program for keeping track of applications for jobs and internships; written in C#
- ♦ **C Compiler (Feb-Apr 2016):** a compiler which outputs MIPS assembly code that can be assembled and linked using the GCC MIPS toolchain; written in C++ and supports expressions, control flow and function calls
- ♦ **MIPS-4-3DS Emulator (Sep-Oct 2016):** MIPS simulator for 3DS coded in C; supports all MIPS32 instructions
- ♦ **Gears – Arduino Robot (Jul-Aug 2015):** C++; automatic movement, voice recognition and Bluetooth control
- ♦ **2048 Remake (Feb-Mar 2015):** remake of the smartphone game coded in C++, played on the command line
- ♦ **Resize – Android/iOS Game (Apr-Aug 2014):** published this challenging arcade game; over 600 downloads

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## Personal Details

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<b>Interests Include:</b>	Computer and Mobile Game Development; Robotics; Karate
<b>Previous Roles:</b>	Enfield Environmental Youth Committee Member; Student Council; School Librarian
<b>Further Skills:</b>	Languages: English (native), French (basic), Bengali (basic); Full, Clean Driving License

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**References are available on request**

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