

ANDREAS LUKAS RAUTER

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Technical Skills

- Intermediate in Swift, PHP/Laravel, Java, HTML, CSS, JavaScript and SQL.
- Speaks fluent German (first language) and English (second language).
- Experienced in agile software development practices and team leading positions.

Education

UNIVERSITY COLLEGE LONDON, London, UK — *Master of Engineering in Computer Science*

Sep 2013 - Aug 2017

- Graduated with First-Class Honours.
- Received the Dean's List award for outstanding academic performance.

GYMNASIUM ST. MARTIN, Villach, Austria — *Austrian Matura*

Sep 2008 - Jul 2013

- Final grade average: 1.25 on a scale from 1.0 to 5.0 (passed with distinction).
- Concentrations: Computer Science, Mathematics, Natural Sciences.

Work Experience

VOXREEL LTD, London, UK — *Co-Founder, iOS Developer & Backend Developer*

Aug 2016 - Jun 2017

- Designed and developed a video sharing, mobile application, allowing users to discover businesses and record/share short videos about different aspects of the venue, which are then compiled into searchable and insightful showreels. These reels move away from often misleading written reviews and ratings, and towards convenient and honest insights.
- Fully implemented the iOS app in Swift on top of the listed iOS frameworks: AV Foundation for recording and editing videos, Core Data for in-app data storage to protect against losing recorded videos, Core Animation for creating custom animations, Map Kit for displaying business locations and Grand Central Dispatch (GCD) for performing expensive background tasks.
- Performed unit and automated UI tests using the XCTest framework, targeting the main components and use case scenarios of the iOS app.
- Developed a Laravel based RESTful API, whose components I integrated tested using PHPUnit.
- Followed the MVC design pattern for both the iOS app and the RESTful API. Also utilised the decorator design pattern for the iOS app and the repository pattern for the RESTful API.
- Followed an agile development cycle consisting of feature design, implementation and testing through bi-weekly sprints.
- Incorporated my startup endeavours into my Masters project during my time at UCL for which I received the 4th highest mark in my year.

LONDON SUSTAINABILITY EXCHANGE, London, UK — *Front End Team Leader & Android Developer*

Oct 2015 - Dec 2015

- Lead a front end team of four developers for the Android application 'Freshly' which monitors, grades, and analyses a user's daily and historical exposure to various pollutants when navigating around London.
- Worked in a Scrum Agile process with one week iterations delivering new features and working software at each iteration.
- Designed wireframes, mockups and flow diagrams for the user interface.
- Implemented all underlying functionalities for the application's user interface using the Android API, Java and XML.
- Paid particular emphasis on programming interactive animations, building dynamic pollution graphs and designing graphical assets.
- Clients from the London Sustainability Exchange adopted the codebase.

MICROSOFT, London, UK — *Team Leader & Software Developer*

Oct 2014 - Apr 2015

- Lead a Microsoft Care Homes project of three to develop a predictive and preventative fall alert system for elderly people at their homes in order to significantly decrease fall costs imposed on the NHS.
- Worked on several parts of the software development life cycle including requirements/use cases analysis, design, coding and documentation.
- Designed large areas of the system using high level architecture and UML class diagrams.
- Assisted in programming a Windows desktop application written in C# which monitors users' gates using Xbox Kinects and calculates associated fall analysis data based on a designed fall risk/prediction algorithm.
- Contributed in developing a web application with Bootstrap, HTML, CSS, PHP and SQL, which shares fall analysis data between patients (elderly people) and their carers.
- Communicated and demonstrated product prototypes to the client, organized meetings and held technical project presentations.

INFINEON TECHNOLOGIES, Villach, Austria — *Summer Intern*

Jul 2014 - Aug 2014

- Worked as part of the IT division and assisted a team of five with developing IT infrastructures for a new glass wafer recycling flow process in the assembly line, with the goal of increasing the capacity and efficiency of the underlying microchips production.
- Structured and drafted system requirements specifications.
- Prepared and scheduled group meetings and workshops for the IT teams operating on the same new process.
- Programmed multithreaded user interfaces for small desktop applications written in Java's Swing classes.

UCL INSTITUTE OF ARCHAEOLOGY, London, UK — *Team Leader & Android Developer*

Feb 2014 - Apr 2014

- Lead an development team of three for the Android application 'Snap Pro', a photography application for professionals and academics in the archaeology field, to help them customising and sharing their photographs of artefacts digitally without the need to carry photographic items.
- Built the front end of the application using the Android API, Java and XML.
- Designed and developed user interfaces for both smartphone and tablets screen sizes.
- Programmed the camera functionality of the photography application in order to take easy and professional pictures, showing the geographic coordinates and compass direction of the subject that was being observed.
- Developed traditional (adjusting brightness levels and other image processing techniques) and customized (adding measure boards) photo editing functionalities.
- Received the UCL Computer Science App Award in recognition of outstanding achievement.

Additional Experience

AUSTRIAN RED CROSS, Villach, Austria — *Voluntary Work*

Sept 2010 - Sept 2012

- Collected free food supplies from local supermarkets and handed them out to people in need.

BLACK LIONS, Klagenfurt, Austria — *American Football*

2008 - 2010

- Won both Austrian Student Championship 2009 (below age of 14) and Austrian Junior Championship 2009 (below age of 16).
- Received three Most-Valuable-Player (MVP) awards for outstanding season performances (by Black Lions and Austrian Football Association).