# Pranav Sharma

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## Education

**University of Sydney**
Bachelor of Engineering (Software), Honours Class I, Distinction Average          Mar 2014 – Nov 2017

## Work Experience

**Toshiba Australia, R&D, Sydney**
Software Engineer                                                                 Nov 2017 – Present
- Additional responsibilities to peer review and test code changes.

Software Engineer Trainee                                                         May 2015 – Nov 2017
- Design and Implementation of Raster Image Processor and Colour Technology for Multi-Function Printers and embedded systems using C/C++.
- Prototype, design and implement features for Colour Management Tool in C++ and QT framework.
- Participate in defect triage, repair, and test activities.
- Implemented Printer Working Group raster format for Multi-Function Printers and repackaged Toshiba's facial recognition SDK.
- Designed and built Quality Assurance tools to automate and optimise testing of Multi-Function Printers driver and RIP products in Java, Python using Flask and Sikuli frameworks. Reduced test report generation time by 80%.

**University of Sydney, Institute of Transport and Logistics Studies, Sydney**
Volunteer App Developer                                                          Apr 2014 – Jan 2015
- Worked alongside researchers and suggested design ideas to develop an online app 'RateIT' (iOS and Android) that collected and disseminated crowdsourced passenger-to-passenger information in real-time.
- http://sydney.edu.au/business/itls/news_and_events/news/2014/smart_phone_app

## Personal Projects

**Published Apps**
- Designed, built, and published cross-platform applications for the iOS, Android, Windows Phone, and Windows using Xamarin.Forms in C# and XAML.

| App | iOS | Android | Windows Phone | Windows |
|---|---|---|---|---|
| **PMP® Exam Mentor** A quick reference guide that helps PMP® Exam certification aspirants prepare and revise for the important exam. <ul><li>Less than 2% crash rate</li></ul> | *19K+ installs* goo.gl/PfFKDC | *33K+ installs* goo.gl/I4WVQI | *4.5K+ installs* goo.gl/tnzPas | *4.5K+ installs* goo.gl/tnzPas |
| **MyChem** Helpful guide for Chemistry Students. | *3.4K+ installs* goo.gl/vpaxni | *627+ installs* goo.gl/ljvWbM | *4.3K+ installs* goo.gl/zqSxL8 | *4.3K+ installs* goo.gl/zqSxL8 |
| **USyd 1st Year** For all first-year University of Sydney students a quick and short handy guide. | | | *300+ installs* goo.gl/f2etvF | *300+ installs* goo.gl/f2etvF |
| **Phy Formulas** Phy Formulas, it's a quick and handy guide for physics formulas. | | | *4.7K+ installs* goo.gl/yKwRbm | |
| **Shop Calc** Calculate final prices, discounts and taxes on the items you shop. | | | *100+ installs* goo.gl/wZoHRp | |

**GitHub Projects**
- Android (goo.gl/2rY3sC) – Sample Android app projects written using Android SDK in Java and XML.
- Xamarin (goo.gl/QmEuQZ) – Sample Xamarin app projects written using Xamarin SDK in C# and XAML.
- iOS (goo.gl/ueJuQz) – Sample iOS app projects written using iOS SDK in Swift.

# University/School Projects

### Undergraduate Research Thesis (Device Colour Gamut Comparison)
University of Sydney and Toshiba, Sydney                                    Mar 2017 – Nov 2017
- The aim was to achieve a workflow to objectively classify and compare MFP colour gamuts.
- Successfully compared and calculated the gamut comparison index with less than 4% error.

### CleanTrak App
University of Sydney, Sydney                                             July 2016 – Nov 2016
- Created time management and tracking app "CleanTrak App" that works on iOS and Android for Vivid Property Services to replace and enhance their existing time on site system.
- Main reviewer and repository manager for merging pull requests.
- The system was developed in C# using Xamarin, ASP.NET and SQL Server.

### Play Date Website
University of Sydney, Sydney                                             July 2016 – Nov 2016
- Created and deployed a website to Amazon Web Services(AWS) using Django, HTML5, Bootstrap CSS, PostgreSQL for homeschooled kids to help them find friends and organise play dates.

### Other Projects                                                          2014 - 2016
- Built a personal git server using Raspberry Pi.
- Built a robot waiter using Arduino as a university project.

### FIRST Robotics Club
Liverpool High School, New York, USA                                    Sep 2012 – Jun 2013
- Lead the programming team to develop software for the robot using Java to compete with other FIRST® Robotics teams.
- Communicated with build teams to determine controls and programming needed for the robot.

# Skills
- C#, Java, Python, C/C++, Swift, SQLServer, MySQL, PostgreSQL and some proficiency in HTML5, CSS3, JavaScript, Visual Basic.
- Experience with frameworks like, .NET, Xamarin, QT, Django, Spring and Flask.
- UI & UX development experience for Android (XML), iOS and Windows (XAML).
- Experience developing in Windows/Mac/Linux environments using tools like Visual Studio and Xcode.
- Knowledge of algorithms and various system architectures to build multi-platform applications.
- Experience in design patterns like MVC and MVVM thorough university and personal projects.
- In-depth knowledge of offensive security including attack detection, prevention and defence.

# Accomplishments

### Academics
- **6 High Distinctions** in Object-Oriented Application Frameworks (ELEC5619), Human-Computer Interaction (INFO3315), Software Development Project (COMP3615), Understanding IT Innovations (INFO5992), Introduction to IT Security (INFO2315), Introduction to Programming – Java (INFO1103).
- **11 Distinctions** in other units.

### Winner in Microsoft's 2014 '//Publish/ Developer Contest'
- 'USyd 1st Year' won in the student category for 'Breakthrough in App Innovation and Design'.