

EMPLOYMENT

Senior Software Engineer	Australian Centre for Field Robotics	Nov 2019 – Present
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- Designed a full stack application using Django, JavaScript, PostgreSQL.
- Use of leaflet library, cross filter in JavaScript to represent markers, paths, data filters on map components.
- Implement AJAX, promises in JavaScript to render seamless data with great efficiency.
- Optimize the PostgreSQL query operations by replacing it with Django ORM in python.
- Created multiple Django apps and integrated it with the existing Django project using python.
- Use of docker images in various vagrant environment for development and testing.
- Implemented an API in the Django app to carry out complex operations.
- Write python unit test cases and regression test cases using robot framework.
- Write bash scripts to automate tasks in vagrant environment.
- Use CI/CD pipeline by using Jenkins build to track the errors before deployment.
- Use puppet to configure the project and deploy.
- Planning of timeline for the current project and maintaining the deadline.
- Create and maintain Jira tickets in Kanban board to prioritize the tasks based on ad-hoc requirement and planning the next steps for the applications.
- Meet with stakeholders at least 3 times a week to discuss about the progress of the project and have regular stand up meeting with the team and keep track of the ad-hoc requirements as well.
- Perform code reviews for our team and other projects' team.
- Use of bitbucket to maintain version control and maintain documentation in confluence.
- Use of Microsoft suite to communicate with the team members across the organization.
- Finished training in React, learning Machine learning algorithms, Fast AI.

Takeaways: Different ways to implement Django apps in python, JavaScript to drive an application, creation of database schema for applications, use of docker images and vagrant, Agile methodology.

Digital and Web Officer	The University of Sydney	July 2018 - Nov 2019
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- Working for the Online Services department for redeveloping the poetry library website with Angular and Django (Python) as front end and backend respectively alongside PostgreSQL database which lets users buy poems.
- Implementing the Shopify API to carry out the creation of product and create checkouts to complete payments using REST API and GraphQL in different scenarios.
- Using AWS S3 services to load assets of the application and also to store output of every transaction in the AWS bucket automatically once the transaction is finished.
- Using virtual environment for all the application dependency installation.
- Worked on processing webhooks to trigger a functionality of the project.
- Generates the output PDF which is then automatically stored in AWS S3 bucket and also implemented email service to notify the users about the transaction.
- Testing the application for functional correctness using Selenium.
- Planned the roadmap for the project.
- Developed a python application that sorts the incoming book entries and prepares the document that has to be uploaded into the repositories to keep it updated.
- Meetings with the stakeholders to understand and improve any feature from the already existing application.
- Documentation of all phases of the development, error log for all known issues with the application using Confluence.
- Implemented Fuzzy matching of the repository details using Pentaho Data Integration and Fuzzy Lookup tool.
- Looking into handle mapping to migrate from Dspace to Drupal platform of The University of Sydney library repository.
- Design a SDLC of an application and implemented initial stages using React, Gatsby.
- Analyzing the project and making the right decision to choosing the right approach.

Takeaways: Angular, Django, Shopify, REST, GraphQL, PDFKit, AWS S3, CertBot, AWS route 53, REST, SendGrid, Pandas, NumPy, Time Management, Communication, Planning the project stages and Development, Agility in carrying out the things to speed up things when the needs change.

Assistant ICT Project Co-Ordinator	The University of Sydney	May 2017 - March 2018
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- Migration of user profiles from remote departmental servers to centralized servers using ForenSit Profile Wizard tool.
- Scheduling the migration for users, managing cloud storage for every user.
- Carrying out synchronization after the user profile is being migrated to keep data intact.
- Trouble shooting the user issues to setup network printers, data sync failure, data loss.
- Performs routine maintenance tasks for infrastructure systems such as backups, patch management and hot fixes.
- Installation of virtual machines for the users based on the requirement.
- Prioritizing the migration schedule based on several factors like complexity and time frame.
- Maintains, monitors, and supports the infrastructure environment and facilities.
- Follow defined procedures to monitor systems and resolve problems.
- Analyse and reports on operational metrics to understand performance and to ensure success in process improvements.
- Recommends and develops solutions for improvement of help desk procedures.
- Identifies ways tasks can be automated.

Takeaways: Understanding IT Infrastructure of the server management, Migration of data from one server to another control flow, Jira, Troubleshooting the network issues, Installation of VM, ForenSit Profile Wizard, Team Work, Time management, Communication skills.

Co-Founder	LudusPro	July 2017 - March 2018
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- A firm which conducts online and offline gaming tournament across PlayStation 4 Platform.
- Designed a Website for LudusPro and managed social media marketing for LudusPro, ran paid promotions on Facebook and Instagram.
- Designing and creating posters using Photoshop, illustrator, Canva.

Takeaways: Leadership, IT development.

Test Engineer	Infosys Ltd	July 2015 – June 2016
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- Wrote and Executed unit test cases for various applications in the project.
- Executing Test Cases with Selenium IDE, HP UFT to test the module of “William and Glynn Bank”.
- Design and Development of QA documentation for the entire application.

Takeaways: Automation testing, Manual testing, Team Work.

Intern	Infosys Ltd	February 2015 – June 2015
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- Underwent training in Java, DBMS – SQL, software Engineering, ASP.NET, ADO.NET, SharePoint.
- Crafted a SharePoint site for Infosys employees, "GetCertified" where an employee can take up the Microsoft certification exams for free with Infosys credentials, which request will then be sent to employee's manager to approve. Also, Pearson will get a request mail to approve after the manager approves the exam request so that the employee doesn't have to pay for the exams. After which the employee will get the approval mail regarding the exam they applied for.

Takeaways: Learnt a lot of things with respect of technical skills, Teamwork.

EDUCATION

Sydney, NSW	The University of Sydney	July 2016 – June 2018
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- Master's in Information Technology and Information Technology Management, June 2018.
Majoring in Data Analytics
- Graduate Coursework: Data Analytics and Business Intelligence; Cloud Computing; Mobile Computing; Web Application Development; Knowledge Management Systems; Advanced Data Models, Software Quality Engineering, Project Management, Advanced Project Management.

Nitte, India	Nitte Mahalinga Adyanthaya Memorial Institute of Technology	2011 – 2015
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- Bachelor of Technology in Computer Science and Engineering, May 2015.

- Undergraduate Coursework: Databases; Algorithms; Programming Languages; Computer Architecture.

TECHNICAL EXPERIENCE

Projects

- **Data Analytics Dashboard.** Developed a MEAN Stack web application that displays a dashboard for Big Data obtained from Wiki articles. NodeJS, AngularJS and MongoDB.
- **Wikipedia Data Analysis using MongoDB and Neo4J.** Performed Data Analysis by executing analytical queries on a Wikipedia database using MongoDB and Neo4J.
- **Cancerous gene Detection.** Developed an application using Flink, that identified frequently occurring genes in patients that suffer from cancer using Microsoft Azure Services.

Languages and Technologies

- ReactJS; Python; Django; HTML; CSS; Shell Script; MongoDB; SQL; JavaScript, Angular; Node JS; Selenium IDE; PostgreSQL; PowerBI; Jira; Confluence; Pandas.
- jQuery; WordPress; Pentaho; SAP Analytics; PHP; ASP.NET; ADO.NET; SharePoint; Tableau; Photoshop; UFT;
- Pursuing Certification in AWS Developer Associate.
- Have knowledge about Machine Learning algorithms and implementation of the same through python.