Thomas Pham

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WORK EXPERIENCE

NOV 2017 - CURRENT (FT)

ClassCom
Software Engineer

Building a RocketChat-based platform to solve classroom communication problem.
Technological Stack: Python, Django, Swift, Javascript, NodeJS, MongdoDB, AWS, Azure Cloud, Google Cloud, Selenium, Chimp, Mochas.
Product Traction:

- The product is accepted into RMIT Activator, an Startup Incubator host by RMIT University.
- Lecturers use the product at RMIT and Victoria University.
- Working with RMIT School of Science.
- The product is being used at British University of Vietnam.

Responsibilities:

- Developed and customized and livechat functions with automated tests.
- Developed mobile applications.
- Maintained, developed and improved RocketChat core and REST API.
- Developed integrated applications: Attendance Checker and Feedback system.
- Deployed and maintained the scalable system on Amazon Web Service, Azure Cloud and Google Cloud Platform.
- Designed and Developed the Continuous Integration and Deployment.

MAR 2017 – OCT 2017 (PT)

Melbourne Network Society Institute
Software Engineer Intern

Solving the problem of facial recognition in security system using various machine learning and signal processing techniques.
Technological Stack: MATLAB, Machine Learning, Signal Processing.
Product Traction:

- The algorithm achieved above 90% accuracy for many famous dataset such as Extended Yale Database B, Ferret.

Responsibilities:

- Developed, maintained and test facial recognition algorithms which are robust in adversarial situations.
- Scaled the algorithms to perform in fast paced environment.

EDUCATION

MAR 2017 – DEC 2017

University of Melbourne
Master of Information Technology Computer Science
Projects:

- Designed a programming language which supports variables, conditionals, loops, arrays and functions, then implemented its compiler.
- Developed a scalable distributed chat application in Java.
- Implemented various parallel algorithms to speed up their performance.

MAR 2015 – DEC 2014

University of Melbourne
Master of Science Mathematics and Statistics
Projects:

- Developed and tested a mathematical model for cash-flows in insurance context.
- Implemented missing link prediction for large graphs.

MAR 2011 – DEC 2013

University of Melbourne
Bachelor of Science Mathematics and Statistics
Projects:

- Developed an web movie database.

TECHNICAL SKILLS

- High proficiency in **C++, Java, Python, NodeJS**.
- Strong knowledge of **Algorithms** and **Data Structures**.
- High proficiency in database design and scalability of relational and non-relational database.
- Strong knowledge of **Object Oriented Design Patterns** and **Model-View-Controller** Architecture.
- High proficiency in **Git** toolchains.
- Strong practice of **Agile** methodologies.