
Profile

Create things, Bless people, Give insight

Proficiencies

- C/C++, Python, Javascript, Swift/SwiftUI
- MacOS/iOS/Linux/Windows Development
- Agile Methodology, Research & Development
- Mentoring, Programme Design, Technical Writing

Expertise

- Software Architecture/System Design
 - Computer Graphics/Computer Vision
 - Artificial Intelligence/Machine Learning
 - UI/UX/Information Visualization
-

Professional Experience

Deputy Lead

Screening Eagle Technologies - R&D (Jan 2023 - Present)

- Co-led research direction and objectives for R&D projects
 - Applied AI for Visual inspection
 - Applied AI for Subsurface Data applications
- Developed and deployed software solutions
 - Drone photo processing and automation applications (SwiftUI)
 - Dream Labs; a Technology Preview platform (ReactJS)
 - Parallel LOD Generation for GPR Data Visualization (AWS & Python & C++)

SW. Engineer (CV/ML),

Screening Eagle Technologies - R&D (Dec 2020 - Dec 2022)

- Researched and developed software prototypes
 - iPad LiDAR 3D scanning (Swift & C++)
 - 3D Asset viewing and annotation (ReactJS)
 - Boston Dynamics Spot control stack (Python & ReactJS)
 - Data collection and cleaning pipelines (Python)
 - Visual inspection processing applications (Python & Swift)

Sr. SW. Engineer, Technical & Engineering Practices Lead

Autodesk - Delivery (Jun 2018 - Dec 2020)

- Champion for SWD & CI/CD Best Practices
- Architected & implemented Install Coordinator (C++)
- Architected & implemented Unit Test (GTest) and Component Test frameworks (Robot)
- Contributed to Install UI and UI workflows (Electron & ReactJS)

SW. Engineer

Autodesk - Memento/ReCap Photo (Jan 2015 - Jun 2018)

- Designed & implemented a CI/CD framework for Jenkins Pipeline Shared Library (Python)
- Architected & refactored UI framework and 3D manipulation tools (C++)
- Collaborated with UX to build UI workflows for Desktop and VR (C++ & QT)

Volunteer Experience

Elder Geek/Head of Projects

GeeksHacking Community (Jun 2019 - Present)

- Head of Projects for GeeksHacking Software Projects
- Co-created and conducted alumni training & engagement programme for SST
- Program 2IC for Hackomania 2024 & 2025

Mentor/Trainer/Ministry Lead

The Navteens Singapore (Dec 2009 - Present)

- Developed Training Syllabus for Disciple-making Leadership
- Mentored individuals for holistic growth in faith and life

Volunteer/Officer

Boys Brigade Singapore (Jan 2005 - Apr 2019)

Education

M.Comp in C.S.

National University of Singapore (Jan 2017 - Jul 2019)

B.Sc in C.S. in R.T.I.S (Minor in Mathematics)

DigiPen Institute of Technology (Sep 2012 - Aug 2015)