Profile

Love to create things, bless people and provide insight

Skills

- C/C$_{++}$, Python, Javascript/Typescript, Swift
- Windows, Linux, MacOS, iPadOS
- Agile, Scrum Methodology, Research & Development
- Teaching, Mentoring, Program Design

Knowledge

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

Work Experience

Screening Eagle Technologies - R&D *C++ CV/ML Software Engineer (Dec 2020 - Present)*

- Software Engineer for *Research and Development Team*
  - Researched & implemented various prototypes, including:
    * iPad LiDAR 3D scanning (Swift & C$_{++}$)
    * Boston Dynamics Spot control stack (Python & ReactJS)
    * 3D Asset viewing and annotation (ReactJS)

Autodesk - Delivery *Sr. Software Engineer, Solution Lead, Engineering Practices Lead (Jun 2018 - Dec 2020)*

- Engineering Practices Lead for *Autodesk Delivery Team*
  - Champion for SWD & CI/CD Best Practices
- Technical Lead for *Autodesk On-Demand Install Service*
  - Architected & implemented Install Coordinator (C$_{++}$)
  - Architected & implemented Unit Test (GTest) and Component Test frameworks (Robot)
  - Contributed to Install UI and UI workflows (Electron & ReactJS)

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

- Designed & implemented a CI/CD framework for Jenkins Pipeline Shared Library (Python)
- Key contributor in design and implementation of *Autodesk ReCap Photo*
  - Architected & refactored UI framework and 3D manipulation tools (C$_{++}$)
  - Collaborated with UX to build UI workflows for Desktop and VR (C$_{++}$ & QT)

Volunteer Experience

GeeksHacking Community *Mentor/Partner/Project Lead (June 2019 - Present)*

- Co-created and conducted alumni training & engagement programme
  - Trainer for SST Inc. Consultants
  - Mentor for SST Inc. Executive Committee
  - Consultant for SST Inc. companies

The Navteens Singapore *Mentor/Trainer (Dec 2009 - Present)*

- Mentored individuals for holistic growth in faith and life
- Taught Bible-centered mentoring skills as part of a youth training program

Boys Brigade Singapore *Volunteer/Officer (Jan 2005 - Apr 2019)*

Education

National University of Singapore *Jan 2017 - Jul 2019*

- M.Comp in Computer Science

DigiPen Institute of Technology *Sep 2012 - Aug 2015*

- B.Sc in Computer Science in Real-Time Interactive Simulation
  - Teaching Assistant
  - Tools Programmer, Short Circuit
  - Gameplay Programmer, Flowline
  - Technical Lead, BIBBB