Yifei Lu

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EDUCATION

Technische Universiteit Delft   Delft,Netherlands
Bachelor in Computer Science Engineering, Minor in Project Management   *Aug. 2020 – May 2023*

American International School of Budapest   Budapest, Hungary
International Baccalaureate. Graduated with 7 in Physics HL, 6 in Math and Chemistry HL   *Sept. 2016 – June 2020*

PROJECTS

Kerbal Spcae Program Game Plugin | *C#*   June 2022 – August 2022
- Implemented an autopilot for aircraft with PID controll in the game
- Developed an automation for scripted rocket launching in game

Inspection Dashboard | *Python, Flask, Vue, PostgreSQL, Docker, PyTest, TypeScript*   April 2022 – June 2022
- Developed a full-stack web application using with Flask serving a REST API with Vue as the frontend
- Implemented OpenCV image analysis to detects cracks intensity within a certain area
- Developed a python backend with microservice architecture
- Fully tested backend with mutation testing

AI Maze Solver | *Python, numPy, SciKit, Git*   January 2022 – April 2022
- Developed a machine learning maze solver that could found the best solution for the path in a Maze
- Implemented with different machine learning algorithm (Ant Colony Optimization, Reinforced Learning)

Ray Tracer | *OpenGL, C++, Git*   September 2021 – Febuary 2022
- Implemented a CPU compute based Ray Tracer using OpenGL in C++ during the Computer Graphics coruse.
- Responsible for generating and traversing BVH data structure, hard shadows, area lights and motion blur.
- Reformat the framework for the tracer to use GPU for computation

Live Q&A Platform | *Java, Maven, JavaFX, JFoenix, Spring Boot, Hibernate, Git*   February 2021 – April 2021
- Developed a platform in which teachers answer students' most voted question in real time
- Implemented with Java and Maven using Spring Boot, Hibernate framework
- Worked with JavaFX and JFoenix to create the UI interface for the application

EXPERIENCE

Intern Software Engineer   April 2022 – June 2022
ABT B.V.   *Delft,Netherlands*
- Developed a full stack dashboard system for displaying concrete inspection and maintenance
- Developed a crack analysis system based on the images analysis
- Implemented backend in RESTApi and microservices to distribute load
- Experienced with weekly Scrum methodology within the team

PROGRAMMING LANGUAGES

★★★★★: Java, Python, Scala
★★★★: Assembly, SQL (Postgres)
★★★: C/C++, Haskell
★★: Kotlin, C#

TECHNICAL SKILLS

Frameworks: Spring, Flask, JUnit, Hibernate, PyTest, Mockito, H2
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, C Lion
Libraries: NumPy, Matplotlib, javaFX, pyLint, Gson,JFoenix

Language

Chinese: Mother tongue
English: Proficient
German: Simple (A1-A2)
Dutch: Simple (A1-A2)