Karthik Iyer

Portfolio GitHub LinkedIn
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EDUCATION

IIT ROORKEE
B.Tech Chemical Engg. with minors in Computer Science & Engg.
2017 - 2021 | CGPA: 8.907

SKILLS

LANGUAGES
C/C++ • Java • Python • Swift

FRAMEWORK/LIBRARIES
• OpenTimelineIO • PySide2/PyQt
• Basic OpenGL • Spring Boot • Kafka
• Android Java Framework

SOFTWARE/TOOLS
• Git • CMake • Oracle SQL Developer
• Firebase • Blender
• Adobe Premiere Pro
• Adobe After Effects

ACCOMPLISHMENTS

• Our team stood first in Productathon E-Summit 20' at IIT Roorkee
• Our team stood third in Hack in the North 4.0 at IIIT Allahabad
• Our team was among the top 10 in InOut 6.
• Secured first position in AIST Real Steel Video Contest
• Qualified for KVPY Scholarship with an All India Rank of 618
• Short Course in Film Appreciation by FTII

REFERENCES

Nick Porcino
Sr. Engineer Tools: Story and Editorial
Pixar Animarion Studios
Emeryville, California
nick.porcino@gmail.com

Brad Larson
Software Engineer
Google
Madison, Wisconsin
larson@sunsetlakesoftware.com
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EXPERIENCE

JPMORGAN CHASE & CO.
Software Engineer
July 2021 - Present | Mumbai
• Working on Spring Boot microservices

VIGA ENTERTAINMENT TECHNOLOGY
Computer Graphics Engineering Intern
January 2021 | Remote
• Worked on texture extraction from polarized images, and explored 3D reconstruction from stero images.

GOOGLE SUMMER OF CODE
Academy Software Foundation | Software developer
June 2020 – August 2020 | Remote
Significant contributions to OpenTimelineIO during and after GSoC.
• Implemented predicates from Allen's Interval Algebra. Wrote C and Java bindings for the C++ core of the library, an SVG adapter and the first version of CI automation using GitHub actions.

JPMORGAN CHASE & CO. | Summer Intern
June 2020 – July 2020 | Remote
• Developed a POC for conversion between Indian Sign Language and English.
• Developed a REST API using flask and an Android app.

GOOGLE SUMMER OF CODE   TensorFlow | Software developer
May 2019 – August 2019 | Remote
• Developed a cross-platform DataViz library in Swift, with AGG & SVG rendering backends & added a graphics output library to swift-jupyter using pure Swift.

UNDERGRADUATE TEACHING ASSISTANT
Academic Reinforcement Program - IIT Roorkee
January 2018 – May 2019
• Undergraduate Teaching Assistant for Fluid Dynamics. Mentored 30 students for the course throughout the semester.

PROJECTS

RAYTRACER
• A simple C++ Path Tracer for learning. Based on Raytracing in One Weekend series and PBRT.
• Implemented multithreaded and tiled rendering, mesh loading using assimp and denoising using OpenImageDenoise.

OFFICIAL SECURITY APP OF IIT ROORKEE | TEAM LEAD
July 2020 – April 2021 | Roorkee, India
• Lead the development of the security app for IIT Roorkee.
• Digitized the logging of entry into campus and other checkpoints on campus.

LEADERSHIP

• Head of Technology & Developer and Mentor @MDG IIT Roorkee
• Video Editor @CineSec IIT Roorkee