Karthik Chennupati

Final Year CS Undergraduate at **Rajiv Gandhi University of Knowledge Technologies, Nuzvid**

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Experience

- **Student Developer Extern - CWoD, Crio.Do** — Jan 21 - Present

  Developing a scalable storage drive system for Vicara

  Developed a full-stack application and was part of the 190 shortlisted candidates for externship out of 10k candidates.

- **Software Engineer Intern, Shris Infotech** — Sept 20 - Jan 21

  Developed an @ protocol secondary server for the @PA platform

  Worked along with Jagannadh Vanguri (CTO, Shris Infotech) and learnt writing clean, testable and reusable modules. Redesigned CommitLog from linear to logarithmic time complexity.

  Participated in initial architectural decisions of @pay (an end-to-end encrypted payment gateway), and developed prototypes for proof of concept. Demoed prototypes to investors for seed funding.

Projects

- **RESTful Quiz API** — July 2020

  Developed a RESTful Quiz service using Spring framework

  Users can register with the service and create quizzes or solve them. Only the creator will be able to delete/update a specific Quiz. Worked on security issues and implemented appropriate functionalities.

- **Cryptocurrency Simulation** — May 2020

  Developed a Cryptocurrency Simulation using Blockchain

  Users in the system will be performing digital transactions, while miners will be mining blocks. Modelled users and miners as threads, worked on concurrency issues and implemented required synchronisation using custom locking mechanisms

- **Reliable Data Transfer over UDP** — Oct 2019

  Developed reliable send and recv interfaces on top of UDP

  Used sequential stop-and-wait ARQ (Automatic Repeat reQuests) to provide reliability over UDP's unreliable channel.

Skills

- **Proficient:** Java, C, Data Structures, Algorithms, Operating Systems, and Computer Networks.

- **Knowledgable:** Object-oriented Design, TDD (JUnit), Git, SpringBoot, Maven, Linux, Socket Programming, Database Systems (MySQL, Redis), Asynchronous Programming Model, Advanced DS, Web Architecture, and Multithreaded Programming.

- **Familiar:** Cloud Deployment, CI/CD

Accolades

- Won paper presentation competition twice at Teckzite, a national-level tech fest with talks on SDN's and Secure Network Architectures.

- Parallel, Concurrent and Distributed Programming in Java Specialisation from Rice University on Coursera.

Programming Profiles

 CODECHEF — An unacademy Educational Initiative

 CODEFORCES

 HackerRank