Varun Parthasarathy

SOFTWARE ENGINEER

 (408) 634-3475 | me@varunp.com | vparthas | vparthas | www.varunp.com

Selected Experience

Snickerdoodle Labs   *Palo Alto, CA - Remote*
DISTRIBUTED SYSTEMS ENGINEER   *February 2022 - Present*

- Provided crucial research and expertise to the development of the protocol concept and design.
- Co-authored the company white paper to provide internal direction, serve as the basis for provisional patents, and raise external awareness.
- Individually designed and implemented crucial services within the wallet client architecture including blockchain indexing support.
- Architected Ceramic-network and IPFS based distributed cloud persistence store for private user data. Features include a robust key-derivation based end-to-end encryption scheme, Incremental backup system with conflict resolution, and multi-client concurrency.
- Individually owned the development and support of edge data operations for an entire federated learning data network.
- Gained valuable experience in engineering, product, and operational aspects of the business unit through close collaboration.

Coinbase   *San Francisco, CA - Remote*
SOFTWARE ENGINEER   *July 2020 - November 2021*

- Member of the crypto scalability team owning blockchain node infrastructure, chain data, and wallet scaling.
- Worked on internal blockchain node management system including contributing snapshotting, health checking, and dynamic configuration features.
- Maintained blockchain node deployments leveraged by the entire company and onboarded new assets to node infrastructure.
- Commanded on-call shifts during multiple high severity incidents and events including the holidays and DPO.
- Gained experience working with numerous protocols through integration with trading systems.
- Contributed related transaction support to the Rosetta API open source project.
- Enabled support for ERC20 token swaps within Ethereum trading systems, and created testing infrastructure using Solidity and ethers.js.
- Created key tooling including a production job running tool and network upgrade alerting and automation tooling for use by SREs.

Netskope   *Santa Clara, CA*
SOFTWARE ENGINEER   *June 2019 - May 2020*

- Worked on Kubernetes cluster deployment and management software solution used to deploy microservices to multiple data centers.
- Researched, designed, and implemented high level tooling in order to achieve seamless transition of existing services to new container orchestration infrastructure.
- Designed and implemented features including service discovery, scheduling, and auto-scaling for data center deployments.
- Worked with various technologies including Kubernetes and Docker to develop a container configuration and inspection tool for production deployments.

Amazon   *Seattle, WA*
SOFTWARE DEVELOPMENT ENGINEER INTERN   *May 2018 - August 2018*

- Worked on Promotions Services team implementing promotional discounts and coupons on retail platform.
- Developed promotion discovery API to allow promotional discounts to be messaged to users prior to checkout.
- Implemented discount discovery and calculation logic to find applicable discounts and calculate discount charges for items allowing for dynamic advertising of discounts on retail pages.

Education

University of Illinois at Urbana-Champaign   *Champaign, IL*
BACHELOR OF SCIENCE IN STATISTICS & COMPUTER SCIENCE   *May 2019*

Skills

Languages	Go, Python, Java, Ruby, C, C++, C#, Terraform, JavaScript/Typescript, HTML/CSS, SQL, R, Solidity, Rust
Technologies	Kubernetes, Docker, Terraform, Node.js, EVM, Solana, IPFS/IPLD, Ceramic, Smart Contracts, AWS (EC2, EBS, S3) Flask, Git, Linux, Android
Domain Knowledge	Distributed Systems, Back-end Service Architecture, Microservices, Databases, Infrastructure, Scalability, Blockchain Cryptocurrency, Web3, Early stage product development