Aayush Singh

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PROFESSIONAL EXPERIENCE

Co-Founder & Chief Product Officer - Moira Labs LLC   **Sep 2021 - Present [3+ Years]**
• Founded Moira Labs, a startup specializing in crypto and the gaming industry
• Secured over **$20,000** in funding through Private Ventures Group accelerator and NYU Stern Venture program
• Led the development and launch of flagship application 'The Lost War', achieving **300+ users** in the first 3 months
• Designed codebase for a team of six developers using **Agile methodologies**, accelerating launch timeline by 3 weeks
• Removed obstacles for developers as **scrum master** during daily standups, increasing team velocity and autonomy
• Optimized server code and deployment for **AWS EC2 cloud servers**, cutting previous server costs by over 25%
• Evaluated blockchain provider APIs for leveraging NFT and **blockchain transactions** in production applications
• Setup **CI/CD pipelines** using GitHub actions to test and deploy code across repositories in a production environment
• Integrated and deployed blockchain technologies such as solidity smart contracts and automatic token exchanges
• Maintained identity management systems and SQL data storage, ensuring **data integrity and security** in the cloud
• Supervised all code contributions across three critical company repositories, with **2,000+ commits** per year

Software Engineer - 3DFS Technologies   **Oct 2021 – Aug 2022 [1 Year]**
• Built a custom **database** with PostgreSQL which increased inventory volume and availability by over 20%
• Created a virtual software control bus using **embedded C programming**, reducing machinery costs by 11% per unit
• Implemented automatic software updates through **Azure Cloud**, reducing clients' daily maintenance expenses
• Programmed real-time energy-monitoring processes to analyze system performance, cutting idle power usage in half
• Employed statistical analysis and **data modeling** to predict machine failure and course-correct preemptively
• Used **cryptography and cybersecurity** techniques to detect malware and securely lockdown and encrypt software

QUALIFICATIONS

• Conducted research with PhD candidates on pre-executing compiled C++ code by studying advanced logic systems
• Experienced at raising funds via pitching to Venture Capitalists, accelerator programs, incubators, and more
• Skilled in negotiating strategic partnerships and business deals to drive growth and expand opportunities
• Proficient in taking ideas, setting up the required infrastructure, and transforming them into shippable products

PROJECTS

Chopstix: Invented an algorithm to solve the game 'Chopstix', using dynamic programming and linear algebra
LitBot: Developed an artificial intelligence algorithm that uses machine learning to play the card game 'Literature'
SMTP Server: Created a custom implementation of the original SMTP protocol as server code in Python
Websites: Built multiple websites from scratch, without any frameworks, for fastest possible loading times
TCP: Independently implemented a custom variation of TCP networking which prioritizes large-scale data transfer

TECHNICAL SKILLS

Languages: C#, Python, JavaScript, Java, C, C++, Bash, HTML, CSS, SQL
Platforms/Frameworks: Linux, Windows, WSL, Node, React, NextJS, Unity, PostgreSQL, MongoDB
DevOps: Docker, Github, AWS Cloud, Azure Cloud, Postman, Ansible, Jenkins, Kubernetes

EDUCATION

University of North Carolina at Chapel Hill   **August 2020 - May 2023**
Bachelor of Science in Computer Science, Data Science and Mathematics Minor   [Chapel Hill, North Carolina]
Cumulative GPA: 3.6, Carolina Honors Student, Graduated with Distinction