Shubham Shrivastava

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EXPERIENCE

IBM – IBM Hyper Protect Offline Signing Orchestrator (OSO)
Associate Software Engineer

May 2024 – Present
Durham, NC

- Built a software for offline authorization of **crypto transactions** before broadcasting them online.
- Developed secure, air-gapped transaction workflows for digital asset custody solutions using **IBM Hyper Protect Virtual Servers**, **IBM Z**, and **LinuxONE**.
- Designed secure communication channels between isolated systems and configured **Logical Partitions** & **HiperSockets** for efficient and secure deployment, surpassing traditional air-gapped security.
- Built OSO plugins for custodians like **Fireblocks** and **Metaco Harmonize** (acquired by **Ripple**) to streamline institutional transaction workflows.
- Created an **open-source plugin framework** for independent software vendors (**ISVs**) to build their custodian plugins aligned with OSO architecture standards, reducing the need for custom in-house plugin development.
- Developed the **UI Console** for OSO, integrating transaction creation, signature collection, audit trails, and offline transaction processing through secure signing **APIs**.
- Developing a solution to **broaden client scope** by reducing costs with **multi-tenancy support** for an on-prem hosted solution, enhancing **security and privacy** between tenants while enabling system resource sharing.

Blinkz LLC
Founder

Oct 2023 – Present
Cary, NC

- Tailor **automation & software tools** to client needs, streamlining workflows and boosting operational efficiency.
- Build scalable systems to enhance client engagement and automate repetitive workflows with **advanced agents**.
- Specialize in **reverse API engineering**, **captcha bypassing**, and **proxy handling** for robust, browser and request-based automations.
- Developed **agents** for stock trading, mass outreach, sneaker drops, and more, generating **$70k+** in client revenue.
- Designed various polished & responsive **websites** and engineered **AI chatbots** for businesses for e-commerce and digital platforms, reducing response times by **50%** and boosting engagement.
- Streamlined real-time inventory monitoring via Shopify & Discord integrations and social media automation, cutting downtime by **25%** and increasing user retention by **20%**.

Sleep Number Corporation
Junior Software Engineer - Contract

Dec 2023 – May 2024
Minneapolis, MN

- Transformed Sleep Number's payment system from **Shift4 to Adyen**, integrating the new solution with **Oracle Siebel CRM** for streamlined operations.
- Developed critical **function apps** utilizing **Node.js** & **TypeScript** and **APIM policies** on **Azure** to handle key POS functionalities, including void transactions and gift card processing.
- Efficiently managed the data flow between Siebel and Adyen API using **Azure Core Function Tools**, enhancing overall system efficiency and performance.
- Automated and managed the monitoring and alerting of Azure function app logs with **Terraform**, and created situation-based **KQL** queries for both platform and business teams to enhance operational visibility.
- Conducted functional and integration tests with **Jest** on all payment process endpoints, ensuring robust performance and reliability.

EDUCATION

Purdue University
B.Science in Computer Science & B.Science in Applied Mathematics

West Lafayette, IN
Dec 2023

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C/C++, TypeScript, SQL, Dart, R, HTML/CSS
Frameworks: React.js, Angular.js, Flutter, Next.js, Express.js, Flask, MongoDB, SQLite, MySQL, Hadoop
Developer Tools: Node.js, Kubernetes, Docker, Podman, Terraform, AWS, Azure, Linux, Unix
Libraries: NumPy, PyTorch, OpenCV, Pandas, Puppeteer.js, Selenium