Nikshep Svn

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Education

University of Waterloo: Candidate for Bachelors in **Computer Science** 2021
Extracurriculars (Hackathons): HackPrinceton '17, MHacks 8, PennApps XIV, HackTheNorth '17, StartHacks

Experience

Software Engineering Intern • PagerDuty

May 2018 - August 2018

- Utilizing **Scala, Ruby** and **Elixir** to develop and maintain **critical** microservices that multiple teams depend on.
- Enabled batch committing of **Kafka** partition offsets using **Scala** and **Akka** that led to reduced response times.

Software Developer Intern • Magmic

May 2017- August 2017

- Engineered a new authentication flow using **Node, Express**, **PostgreSQL** and **C#** that makes **60% fewer db calls** and is roughly **2.5x faster** than the previous version – reducing login and signup times for over **250,000 users.**
- Implemented a deployment service into the Live Ops dashboard allowing staged deployments of production servers using **AWS** – in turn eliminating downtime during updates and **reducing deploy time** by around **50%.**
- Integrated a DDOS prevention system and improved the spam middleware on the server **reducing error rates.**
- Built a test app with **C#** that reduces the time needed to test through the features of the **SDK** by over **40%.**

Software Engineer • Open Source | Contractor

May 2016 – July 2017

- Worked with Decent.Bet, an **Ethereum** based platform and helped them build their product using **React, Node**.
- Collaborated with **Mozilla** to do open source work on **Firefox** and helped them refactor the codebase.
- Worked with **BizDoors**, a company focused on helping budding startups and built their website using **React**.

Projects

ScatterFly • Intelligent Traffic Obfuscation

- **40+ stars, 1000+ views and 5 forks on GitHub.** Inspired by US law that let ISP's sell personal traffic to corporations.
- Utilized **Selenium** to emulate user activity by writing functions to mimic browsing sites like Reddit, Facebook etc.
- Working on improving obfuscation by analyzing patterns from previous search history using **SQL and Python.**

TumbleWeed • Lead Generation and Management Suite

- Used the **Bing Search API** to conduct an X-Ray search of LinkedIn to obtain names and generate emails of leads depending of multiple filters, like role, company, location and previous education etc.
- Enabled users to make lists, each containing leads based on custom criteria and allowed users to make notes and keep track of extra information about each lead, storing all data in **MongoDB**.
- Developed an **open source module** called **pyTracker** that enabled email open and link tracking features. Thus, allowing users to send template emails to leads and actively monitor their status.

Skills

Languages & Frameworks - C++, Python, JavaScript, Scala, Java, Kafka, PostgreSQL, MongoDB, Redis.
Tools & Misc. - Amazon AWS (EC2, OpsWorks, Chef), Azure, Linode, Git, Linux (Bash scripting), JIRA, Unity.