

# Yash Patel

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## EXPERIENCE

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### FAST MELON

Parlin, NJ

#### Software Engineer

June 2023 – Aug 2023

- Saved \$2,880 in bandwidth costs and \$612 in hosting costs annually by orchestrating the microservices using Docker Compose and migrating from managed hosting to an AWS LightSail Virtual Private Server.
- Improved network latency from 300 to 20 milliseconds by migrating from Cloud Database and Cache to local MongoDB and Redis microservices and serving public assets from a globally distributed CDN.
- Created a 5-minute monitoring system by using Uptime Kuma and Uptime Robot to set up email alerts to ensure high availability of the microservices.
- Configured NGINX to save \$60 annually by using Let's Encrypt SSL certificates and save \$144 annually by serving as a Reverse Proxy and Load Balancer to enable scalability of the microservices.
- Cut maintenance time by 20 hours monthly by setting up Cron jobs that automate the deployments using shell scripts and auto renewing SSL certificates.
- Fixed 10 major vulnerabilities by configuring Ubuntu UFW firewall, volumes, private bridge networks, and grouping the containers into subnetworks to improve the security of the microservices architecture.
- Managed 5 DNS records on Namecheap for the domain such as A, CNAME, TXT, URL Redirect, and Email Forwarding.

### OPEN SOURCE

Parlin, NJ

#### Software Engineer

Sept 2021 – May 2023

- Developed a custom Linux Shell, online multiplayer game server, malloc, and DNS server with Load Balancer.
- Wrote a RESTful API offering CRUD functionality using Node.js, Express.js, MongoDB Atlas, and AWS S3.
- Tested API endpoints thoroughly by making AJAX, HTTP requests using Postman and jQuery.
- Produced mobile and desktop applications using Android Studio and JavaFX.
- Documented classes, methods, and fields using Javadoc and executed unit tests using JUnit.
- Designed 15 scenes for the user interface using Scene Builder, FXML, and XML.
- Collaborated with team using GitHub and Bitbucket version control and issue tracker.
- Trained 3 Machine Learning Algorithms in R Studio and used Statistics to improve the accuracy.
- Used Django and PostgreSQL to develop a web application deployed on Heroku.

## EDUCATION

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### RUTGERS UNIVERSITY

New Brunswick, NJ

#### Bachelor of Science in Computer Science

Sept 2021 – May 2024

- GPA: 3.9 / 4.0

## ADDITIONAL INFORMATION

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### TECHNICAL SKILLS

- x86 Assembly, C, Java, JavaScript, Python, SQL, NoSQL, R, HTML, CSS, CLI, Amazon Web Services (AWS), Google Cloud Platform (GCP) Cloud Run, Microsoft Visual Studio Code, Digital Ocean VPS, Linode, GoDaddy Domains, JetBrains IntelliJ IDEA, WebStorm, Cloudflare Pages, GitHub Pages, Atlassian Bitbucket, Git, JSON, MVC Design Pattern, Object Oriented Programming, GDB, MySQL Workbench, phpMyAdmin, Operating Systems

### LINKS

- [github.com/yash-patel-7](https://github.com/yash-patel-7)