Suraj Ramchandran

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EDUCATION

Northeastern University **Expected Graduation: May 2025**
Bachelor of Science in Computer Science, GPA: 3.8 / 4.0 Boston, MA

Relevant Coursework: Distributed Systems, Machine Learning, Object-Oriented Design, Algorithms, Networks, Database Design, Linear Algebra, Natural Language Processing, Discrete Mathematics (TA)

TECHNICAL SKILLS

Programming Languages: Python, Java, Golang, JavaScript, TypeScript, Bash, SQL
Frameworks: React, Django, NextJS, Terraform, Bazel, Pantsbuild, Express, PyTorch, LangChain
Tools: Git, MySQL, AWS, Docker, Kubernetes Linux, Jenkins, Buildkite, GCP

EXPERIENCE

Klaviyo **July 2024 – December 2024**
Software Engineer Co-op Boston, MA

- Migrated 8 crucial CI/CD pipelines from Jenkins to Buildkite and **reduced merge-to-deploy times by 45%**
- Developed a plugin ecosystem to abstract and standardize continuous integration functionality in Python, allowing product engineers to **save 200+ hours** spent in developing and debugging CI pipelines
- Built a GitOps-based deployment system using Golang and ArgoCD to **automatically ship 450+ containerized microservices** to multiple Kubernetes clusters on EKS, reducing engineering overhead
- Leveraged Terraform and Puppet to provision and manage configuration **across 8000+ Linux EC2 instances**

Sandbox at Northeastern University **September 2022 – Present**
Technical Lead Boston, MA

- Lead a team of **5** developers to build a full-stack web application to collect, aggregate and present faculty involvement data for **150+ faculty members** using NextJS, Prisma and PostgreSQL
- Spearheaded a rewrite to NextJS to increase code maintainability and **increased developer velocity by 1.5x**
- Created 20+ frontend components for a degree planning application **used by 500+ students** using React and CSS
- Built a user authentication service using TypeScript, Google Sign-In & JWT to protect endpoints across **4 user levels**

Instawork **July 2023 – December 2023**
Software Engineer Co-op Boston, MA

- Automated data gathering for subpoena requests by building a fault-tolerant data pipeline in Python and MySQL to consolidate and export user, shift, and payment data **saving 7+ hours per user export**
- Launched a candidate screening in-app flow to **drive 30% more** sales in the healthcare segment using the Checkr API and Hyperview, an internal server-driven mobile UI framework
- **Improved gig worker performance 25%** by building an LLM-enabled quiz taken before booking a shift using LangChain, Django and Pydantic

PROJECTS

University Recreation Tracker **December 2022**

- Constructed a NoSQL database containing **80,000+ rows** by web scraping the recreation website using a scheduled Javascript web scraper deployed on Cloud Functions
- Created graphs to show daily and weekly usage trends for **5** on-campus gyms using React and ReCharts to determine the optimal times to visit a crowded university gym

Siglo - Reinvent your input. **February 2022**

- **Won "Most Technically Challenging" product at HackBeanpot 2022**
- Made computing more accessible by creating a gesture-based software input device in Python and OpenCV
- Utilized a convolutional neural network to extract **20+ hand landmarks** from a video stream and designed a classifier to send virtual keystrokes based on hand position