

Barkot Efuye

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EDUCATION

Harvey Mudd College, 05/2023 | Claremont, CA
Bachelor of Science in Computer Science and Mathematics

Relevant Coursework: Data Structures, Algorithms, Programming Languages, Software Engineering, Machine Learning with Neural Networks, Natural Language Processing, Math for Big Data

EXPERIENCE

ServiceNow, Clinic Team Software Engineer 09/2021 – 05/2022 | Claremont, CA

- Designed and developed a recursive static analysis tool in **JavaScript** for flagging inefficient database queries on ServiceNow's developer platform. The tool encourages developers to utilize best practices when querying a local instance of the Developer platform
- Helped write over **100** unit, integration, and end-to-end tests. Tested with over **10,000** client-written queries, resulting in no code exceptions or errors
- Packaged application as an internal plugin; Submitted documentation of the tool's functionality and codebase as a final report. Designed and presented a demo of the tool to **150+** people

Felux [Series A Startup], Full-Stack Software Engineer Intern 04/2021 – 09/2021 | (Remote) Dallas, TX

- Accumulated data of over **5000** steel suppliers through a self-built web scraper to populate the company's database with potential clients
- Created a **REST** service that takes in **Elasticsearch** queries (as a JSON request) to quickly parse through the company database and return relevant steel supplier documents. Used **C# (.NET)**, **Typescript**, and **Prisma** to build this service, and wrapped the project in **Docker** container
- Redesigned onboarding process and initial setup for new employees and reduced overall time to onboard new team members from **3 days to 4 hours**.
- Fixed frontend bugs and redesigned features of UI using **Vue** and **Tailwind CSS**
- Regularly updated and fixed documentation

Salesforce, Software Engineer Intern 05/2020 – 08/2020 | Seattle, WA

- Designed and built a **gRPC** service to feed telemetry data from Tableau Catalog to Tableau Desktop as a way to then analyze consumer patterns. Built the service using **Java (Spring)** and **SQL**
- Created visualizations of the data using Tableau Desktop and presented findings to **200+** people
- Wrote detailed documentation for the design and implementation of the gRPC service
- Lead scrum review meetings as **Scrum Master**

PROJECTS

Personal Website  2022 – present

Developed a website to showcase my experience and projects. Built with **React**, **Typescript**, and **Tailwind CSS**

Nile Express Truck Driver Application 2022 – present

Built landing page, driver application form, and mailing service for acquiring and processing job applications. Built with **Vue**, **Typescript**, and **Express**

Natural Disaster Prediction with Twitter Data

Trained Senti-BERT and BiLSTM classifiers with over **10,000** labeled observations of Twitter data and compared both models using confusion matrix and F1 score. Found that Senti-BERT correctly categorizes tweets with **92%** accuracy

Dog Breed Classification with Transfer Learning

Implemented InceptionV3 with Expectation Maximization Clustering Algorithm to create app for classifying dog breeds

SKILLS

Programming Languages: Javascript (React, Vue, Express, Axios), Typescript, C#, Python, Java, C++, C

Other: Git, Docker, Google Cloud, AWS, Elasticsearch, Node.js, Prisma