# Nabeel Shaikh

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## EDUCATION

**University of California, Los Angeles** – Bachelor of Science, Computer Science **September 2019 – December 2023**
**King's College London** – Study Abroad **September 2021 – January 2022**

## RELEVANT COURSEWORK

Data Structures · Algorithms · Software Engineering · Computer Organization · Programming Languages · Artificial Intelligence · Cryptography & Information Security · Data Science · Operating Systems · Internet Systems

## TECHNICAL SKILLS

**Languages** Python · JavaScript · C++ · C · Haskell · Lisp
**Web development** HTML · CSS · Node.js · Express · React · MongoDB
**Machine learning** supervised vs. unsupervised learning · classification vs. clustering · scikit-learn · SVM · decision trees · neural networks · error analysis
**Automation/orchestration** Linux · Shell scripting · Docker · Kubernetes · CI/CD · Git
**Soft skills** REST APIs · Agile

## WORK EXPERIENCE

**CDK Global** – *Software Engineer Intern, Backend* **June 2022 – August 2022**

- Developed a Python script to automate migrating legacy app registry data to modernized cloud platform
- Created a reusable GitHub Actions workflow that automates building, testing, and publishing a React app to increase developer efficiency
- Onboarded 10 microservices and UI interfaces onto modernized cloud platform, creating app registry definitions, deployment configurations, and build/deploy pipelines for each

**CDK Global** – *DevOps Intern* **June 2021 – August 2021**

- Presented a successful proposal to migrate from existing CI/CD pipeline (Bitbucket, Bamboo, Artifactory) to a new CI/CD pipeline (GitHub Enterprise) to boost developer efficiency and cut costs by $2 million
- Developed Python scripts to relocate source code from Bitbucket to GitHub, convert Bamboo build plans to YAML, and deploy artifacts to GitHub Packages

## PROJECTS

**Bingsoo** – *github.com/nshaikh99/bingsoo*

- Collaborated with a team of 4 to build a configurable multi-threaded web server with support for echoing HTTP requests, serving static content, handling CRUD API requests, and rendering HTML from Markdown using C++ with Boost
- Deployed web server with quality gates to a VM instance on Google Cloud
- Followed software engineering best practices including using a standardized Docker development environment, server logging, and writing GUnit unit/integration tests, product requirement documents, and technical design documents

**Project Theia** – *github.com/noah8368/Project_Theia*

- Developed, in a team of 4, a web application that enables users to view websites from different geographic locations using MongoDB, Express, React, Node.js, and Python with Selenium WebDriver

**Heart Disease Binary Classification** – *github.com/nshaikh99/heartdiseasebinaryclassification*

- Utilized binary classification algorithms such as k-nearest neighbors, logistic regression, and support vector machine to build models that predict whether a patient will suffer from heart disease with up to 85% accuracy based on age, sex, lab results, and history of disease
- Employed k-fold cross-validation to analyze model error

**UCLA School of Dentistry**

- Created an ETL pipeline in MATLAB that filters out noise from toothbrush sensor data to build regression models that categorize effective toothbrushing techniques