

Rahul D. Ghosal

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SKILLS

Languages: Python, JavaScript/TypeScript, C#, VBA, SQL, HTML, CSS
Frameworks: Flask, React (Native), ASP.NET Core, pytest, Bootstrap
Tools: Docker, Git, Bash Shell, Selenium, ArcGIS, Excel

PROFESSIONAL EXPERIENCE

ABeam Consulting USA Ltd. (New York, NY)

Apr 2020 – Present

Digital Transformation Consultant

Leading data migration and black box testing for a multi-year, global-scale trade finance system implementation at a Global Systemically Important Bank (G-SIB).

- Developing and maintaining VBA macros that verify and reconcile data sourced from Oracle databases via ODBC, as well as text files and Excel workbooks. Algorithms were designed to reduce I/O operations and generate formatted reports containing one-to-many comparisons of 300-500 database and file records in a runtime of 5-10 seconds on average.
- Spearheading pre-release data migration of 256 transactions totaling over \$500 million in value through independently developed and maintained SQL scripts that identify and reconcile in-scope database records.
- Coordinating with developers, users, and executive-level stakeholders to identify and resolve pre-release/production issues using knowledge of financial accounting and core banking systems, such as SWIFT, General Ledger, and Deposit (FlexCube).

Ultimate Technologies Inc. (Nagano, Japan)

Apr 2019 – Dec 2019

Process Automation Lead

Led process automation and digitization in a company providing services in printed circuit board design and simulation.

- Implemented command line tools in Python that interface OS and MS Office APIs to automate preparation of client deliverables, such as PowerPoint-based reports, and text file-based inputs used in intermediary software.
- Developed in-house extensions to a web-based data management platform using JavaScript that, for example, provide an improved string matching algorithm for record querying, saving licensing costs of approximately \$1,000/year.
- Validated redesign of company website, implementing Selenium in a command line tool that parses a designated webpage's HTML and validates contents against requirements to the vendor.
- Assisted maintenance of web/FTP servers using Python and PowerShell scripts along with knowledge of the Linux directory structure.

PERSONAL PROJECTS

Hybrid Mobile Application for Travel Planning (Collaborative)

May 2021 – Present

Implements event-driven, microservices that communicate with a React Native client via a GraphQL API Gateway. To be deployed using Docker Compose on Amazon ECS, while CI/CD pipeline uses Travis CI. Follows Agile development, with Sprints and overall project roadmap managed using Jira.

Single-Page Web Application for Audio Visualization

Sept 2019 – Feb 2020

Visualizes audio files retrieved from a public API using React and an open source JavaScript library. Uses Postgres database for session-based user authentication as well as saving query parameters to reduce latency in responses. REST API implemented using Flask and deployed to Heroku.

EDUCATION

M.S. in Global Environmental Studies, Kyoto University

Apr 2017 – Mar 2019

Concentration: Ecological Economics | GPA: 3.861

B.S. in Environmental Science, Rutgers University

Sept 2011 – May 2015

Minors: Japanese, Philosophy | GPA: 3.813, *Magna cum laude*