

Fadil Eledath

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Education

Rice University, Houston TX

Aug 2019 - May 2023

- B.S. in Electrical Engineering
- Relevant Courses: Data Structures and Algorithms, OOP, Fund. Of Electrical Engineering, Signals and Systems
- GPA: 3.41/4.0

Technical Skills

- Languages: Rust, Python, JavaScript, C, Java, PHP, SQL, HTML, CSS, R, Haskell
- Software/Tools: Git, Fusion 360, Adobe XD, WordPress, Pandas, Scikit-learn, Seaborn, Jupyter, Arduino, Raspberry Pi

Related Work Experience

Web Developer, The Rice Thresher

August 2022 – present

- Designed and contributed to articles for Special Projects division of Rice's student-run newspaper.

Software Engineer Intern, Target RWE

May 2022 – Jul 2022

- Converted legacy bash script which validated git repo commit history into optimized Rust code.
- Created Jira app in Forge UI to make logging and tracking hours worked easier for colleagues.
- Developed an R package theme for research papers.

Product Manager Intern, humanID

May 2021 – Aug 2021

- Oversaw development of features for SSO service.
- Devised secure mechanism for account-recovery.
- Coded and feasibility-tested dummy UI with target users to address pain-points and concerns.

Software Engineer Intern, SA Home Loans

May 2020 – July 2020

- Analyzed real-world data from 20,000+ loan applicants of government employees in South Africa.
- Performed EDA with data viz and constructed pipeline for data cleaning and model training, testing and comparison through performance metrics.
- Developed ML models to predict payment opt-out rates using ensemble models such as stacking and XGBoost.

SW, HW Engineer (Freelance) Inner Space

May 2020 – July 2020

- Devised WFH IOT desk with portable 4G device, companion app, web suite for interior design company.
- Built data server and app run on AWS to log, analyze, cache and display employee data on dashboard.
- Developed companion app with React to control desk.
- Modified off-the-shelf peripherals like LED lights and sit/stand desk to allow remote control in prototype.

Co-Founder and Tech Lead, DelegatePal

Feb 2016 – July 2018

- Designed UI/UX and developed utility for Model UN (1,000+ monthly visits) and mobile app (15,000+ installs)
- Engineered current version to be serverless with no hosting costs using Google Drive JS API.

Project Work

Trashberry - [Link](#)

April 2016 - present

- Conceptualized, fabricated, and programmed a robotic reverse-vending machine to incentivize recycling behavior.
- Upgrading form-factor to implement practically using NEG and RXF grant from Rice University.

HackRice X - [Link](#)

Sep 2019

- Developed a Chrome extension to synchronize timers across multiple users' devices in "rooms" for study groups physically spread out.
- Created server to accept requests through PHP backend and organized data in MySQL DB.
- Wrote Chrome extension frontend in JS.

Rice Escape Club

Sep 2019 – present

- Devised various puzzles for players to experience.
- Constructed PVC pipes to emit standing-wave frequencies and a panel interface using Arduino for puzzle.
- Designed and built final puzzle with LEDs and 4-digit input PIN for room.
- Created Raspberry Pi based control system for game hosts to interact with and monitor participants.
- Managed dev-team behind [online puzzlehunt](#) hosted on AWS running on Docker and Django package using outdated and incomplete documentation. Exercised great patience.

Rice Datathon 2020 - [Link](#)

Jan 2020

- Co-wrote Python script to create a logistic regression model of divorce prediction based on questionnaire data.
- Designed online interactive quiz to apply model to new sets of responses to questionnaire.

Awards and Honors

- Rice Lilie New Entrepreneurs Grant (\$2500)
- Rice Experiment Fund (\$1000)
- Emirates Energy Award - Special Recognition (\$8200)
- Youngest Finalist for UAE AI & Robotics for Good Award