Reed Krawiec

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Skills

- **Languages -** JavaScript/Node/TypeScript, Python, Kotlin, Rust, HTML, CSS
- **Libraries/Frameworks -** React.js, Redux, Flask, Express.js, Pytorch, Jest
- **Databases -** SQLite, MySQL, Firestore
- **Tools -** Git, Photoshop, Linux, Docker, Firebase, AWS (Fargate, ECS, EC2, EFS)

Education

- **Rutgers University, New Brunswick NJ**
  - B.S. in Computer Science
  - Expected 2022

Work Experience

- **Full-Stack Software Development Intern (beepboop.us) (May 2021 - August 2021)**
  - Architected and implemented a team-wide adoption of Jest testing framework resulting in improved code quality, maintainability and faster feature development.
  - Developed and improved front end (React) and backend (Node.js) features to manage class cancellations resulting in higher customer satisfaction quality.
  - Built and iteratively enhanced reusable React components as part of Beepboop library for other developers to utilize, alongside mentoring and training to improve developer velocity, efficiency and standards.
  - Collaborated on a SCRUM team following AGILE software development methodology, and assisted with onboarding new developers.

Volunteer Experience

- **Team Lead (Rutgers USACS) (October 2019 - January 2020)**
  - Lead group of new developers to develop open-source quizzing application “Citizenship”.
  - Organized developers’ tasks, and evaluated strengths when delegating work.
  - Provided mentoring and advice to developers while monitoring their progress.
  - Ensured team continuously met time deadlines through weekly meetings with devs. and club leadership.

Awards

- **Prudential Hackathon (2015) Grand Prize**
  - Awarded for Node.js webapp that hosted chat rooms for various topics and communities related to Newark, NJ.

Personal Projects

- **Stitch** (Link)
  - Web. application for content creators that renders edited videos from Twitch.tv
  - Utilized AWS services (Fargate / ECS) to create a distributed rendering service
  - Encapsulated rendering logic into Docker image, allowing for rapid scaling according to demand
- **Board Explorer** (Source Code)
  - Chrome extension using deep learning to recognize / evaluate chess boards on screen, and to overlay interactive and playable boards on top of static boards.
  - Trained an image recognition model utilizing the YOLO image recognition algorithm.
  - Generated 8000+ image dataset to train model without needing hand-created annotations.
- **Buzz** (Source Code)(Play Store)
  - Audio level detection app that uses a phone as a microphone.
  - Developed backend in Flask, deployed as a Docker image on a DigitalOcean droplet
  - Obtained approval for distribution of Kotlin Android app. on Google Play Store.
- **Citizenship** (Source Code)(Demo)
  - Quiz framework using React, Python and SQL (Sqlite).
  - Server login system implemented using sha-256, randomly generated salts, and login tokens.