

# LUCY BECK

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## EDUCATION

### Northwestern University

Master's Degree, Computer Science, GPA: 4.0/4.0

Evanston, IL

Sep 2023 - Jun 2024

### Northwestern University

Bachelor's Degree, Computer Science, GPA: 4.0/4.0

Evanston, IL

Sep 2021 - Jun 2024

## SKILLS

**Languages:** Python, Java, C, C++, JavaScript, TypeScript, HTML, CSS, SQL, Racket, Lua, Apex (Salesforce.com), SOQL

**Frameworks:** React.js, Node.js, Express.js, Next.js, Jest.js, Bootstrap, Flask, unittest, Salesforce Lightning Web & Aura Components

**Technologies:** Amazon Web Services (AWS), Google Cloud Platform (GCP), Firebase, Heroku, Docker, Kubernetes, Jenkins, Git

**Awards & Honors:** Dropbox Hack Week Winner, Intuit Spotlight Award (\$500), Cornell AppDev Hack Challenge Winner

## EXPERIENCE

### Dropbox

Software Engineer Intern

San Francisco, CA

Jun 2023 - Sep 2023

- Utilized TypeScript, React.js, and Python to develop feature with three different variants for the Dropbox Install Page
- Created unit tests using Jest.js, verified code integrity using snapshots, and organized bug bash involving manual tests
- Leveraged Stormcrow to create experiment, define audience, allocate variants, and ramp up traffic for gradual rollout
- Extracted data from Hive using SQL and configured dashboards on Amplitude and Superset for data monitoring/analysis

### Intuit

Software Engineer Intern

Mountain View, CA

Jan 2022 - Jun 2022

- Built Slack Bot using Bolt for Python and stored Slack data in NoSQL database using Amazon DynamoDB and Boto3
- Deployed Slack Bot to AWS Lambda and set up request URL for Slack events using API Gateway's HTTP endpoint
- Protected access to Slack Bot using AWS Secrets Manager and monitored metric data through Amazon CloudWatch
- Optimized documentation migration efficiency by 99% by creating tool that automates JSON file creation using Python

### Fidelity Investments

Software Engineer Intern

Durham, NC

Jun 2021 - Aug 2021

- Created custom components for community platform using JavaScript, HTML, CSS, Salesforce LWC, Apex, and SOQL
- Created API calls that query and filter data from Salesforce CRM and displayed data in the form of 6 interactive charts
- Performed JavaScript unit tests using Jest.js, integration tests, and end-to-end tests to deliver high-performing software
- Streamlined software development and CI/CD using Git, Bitbucket, Jenkins, Jira, and Agile and Scrum methodologies

### Reworld Inc

Software Engineer Intern

Seattle, WA

Feb 2021 - Mar 2021

- Created 3D multiplayer action shooter game in which players use Avocado Goop Guns to defend cows from enemy UFOs
- Formulated algorithms in Lua that simulate gravity, velocity, collisions, explosions, bombs, missiles, and gun mechanisms
- Built system manager to track 4 waves of UFOs, boss UFO, player health, powerups, leaderboard, and remaining cows
- Conducted quality assurance testing on mobile and desktop versions to identify and remove errors before product launch

### Wildhacks

Web Developer

Evanston, IL

Nov 2022 - Present

- Developed the registration page for Wildhacks, Northwestern's largest hackathon attended by 500+ students nationwide
- Utilized HTML, CSS, TypeScript, React.js, Next.js, and MaterialUI to build the registration page and member dashboard
- Collaborated with designers and project managers to ensure registration page meets the needs of the hackathon participants

## PROJECTS

### Itinerary Planner

- Created personalized itineraries for travelers using HTML, CSS, JavaScript, React.js, Node.js, Bootstrap, and Firebase
- Developed algorithm that dynamically factors user preferences, location, and visit durations to suggest optimized itinerary
- Integrated Google Maps API to construct an interactive waypoint map feature, enabling users to visualize their journey

### Recruiting Platform

- Designed and implemented mobile app for posting jobs using HTML, CSS, JavaScript, React.js, Node.js, and Bootstrap
- Utilized Firebase to host application on public server, store data in Realtime Database, and set up Google Authentication
- Conducted multiple rounds of user testing on target audience using pre-test surveys, task scenarios, and post-test surveys

### Challenge with Friends

- Awarded the title of "Best Overall App" in the Cornell AppDev Hack Challenge, outperforming 18 competing teams
- Created multiplayer app featuring competitive challenges and a ranked leaderboard using Python Flask and SQLAlchemy
- Built Docker container and deployed app to Heroku cloud platform to allow users to connect to server and make API calls