

# Rebecca Banks

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## KEY SKILLS

**PROGRAMMING LANGUAGES** | JAVA, C, C#, PYTHON, SWIFT, MATLAB, R AND ARMv8.

**OPERATING SYSTEMS** | LINUX, MAC OS, iOS AND WINDOWS.

**WEB DEVELOPMENT** | HTML, CSS, JSON AND JAVASCRIPT.

**MISCELLANEOUS** | SQL, FIREBASE (DATABASE, STORAGE & AUTHENTICATION) AND GITHUB.

## EDUCATION

### PRINCETON UNIVERSITY

PRINCETON, NJ

Prospective Major: Computer Science (Departmental GPA: 4.0, Overall GPA: 3.3)

B.S. Expected 2022

- Relevant Courses: Advanced Programming Techniques (COS 333); Reasoning about Computation (COS 340); Algorithms and Data Structures (COS 226); Introduction to Programming Systems (COS 217); Computer Science: An Interdisciplinary Approach (COS 126); Multivariable Calculus (MAT 201); Fundamentals of Statistics (ORF 245); Linear Algebra with Applications (MAT 202)

## SOFTWARE ENGINEERING PROJECTS

### TIC TAC TABLETOP iOS APP | PERSONAL ----- EMPLOYED

- Reached out to local companies offering to help them establish an online presence due to COVID-19 lockdown preventing them from opening. JUN 2020 – PRESENT
- Designed, creating and planning to deploy an online store app to increase the sales of a games company. Written in Swift.

### THESIS ADVISOR SEARCH ENGINE | PERSONAL ----- COS 333

- Asked by the ORFE department to create a search engine for rising seniors to find thesis advisors, submit their advisor preferences and suggest potential matches to the administration. Written in HTML, Python, CSS and SQL. FEB 2020 - PRESENT

### STEGANOGRAPHY PROGRAM | PERSONAL ----- A-LEVEL

- Requested by a high school teacher to create a program to demonstrate to students an aspect of cyber security. SEP 2017– APR 2018
- Hides messages in images without being visible by the naked eye. Currently being by schools in England. Written in C#.

### MISC CLASS PROJECTS | PRINCETON UNIVERSITY ----- COS 126, 226, 217, 333

- Completed a range of different projects for Princeton classes. Written in Java (COS 126 & 226), C (COS 217) and Python (COS 333). SEPT 2018 – PRESENT

## STEM PROJECTS

### INTERNATIONAL PATENT | TEAM LEADER & NAMED INVENTOR ----- TAVISTOCK, UK

- Designed a patented device to reduce air leakage (from 60% to 2%) in server cabinets where the wires enter as a student team in partnership with Rittal CSM (issue was highlighted to them by Microsoft). SEP 2016 – SEP 2017

### CYBER SECURITY COURSE | STUDENT ----- CARDIFF UNIVERSITY, UK

- Was selected as 1 of 20 out of hundreds to complete a 1-week residential cyber security training course covering: digital forensics, encryption technologies, open source intelligence techniques and penetration testing. SUMMER 2017

### FORMULA HYBRID | TEAM MEMBER ----- PRINCETON UNIVERSITY, NJ

- Was selected as 1 of 7 out of 50 to join a team of engineers designing, building and racing an electric car. SEP 2018 – PRESENT

## EMPLOYMENT

### TIC TAC TABLETOP | LEAD iOS DEVELOPER ----- TAVISTOCK, UK

- Currently working as the lead iOS Developer for a board games company, managing one other employee. JUN 2020 - PRESENT

### PRINCETON UNIVERSITY | ANDLINGER BUILDING SUPPORT STAFF ----- PRINCETON, NJ

- Responsible for managing the library, being the main point of contact for people having issues inside the building and helping set up and run events within the East Pyne Center. OCT 2019 – PRESENT

### TAVISTOCK COLLEGE | TEACHING ASSISTANT ----- TAVISTOCK, UK

- Reached out to local high school to work as a teaching assistant, due to the fact that they have very large classes with only one teacher. Taught computer science to students covering topics including abstraction, sorting and searching. MAY 2019 – JUL 2019

### GOOGLE – CLOUD ENGINEERING | SHADOWER ----- LONDON, UK

- Observed the meetings and other responsibilities of a google employee to gain technical and business knowledge. SUMMER 2017

## LEADERSHIP EXPERIENCE

### PRINCETON CLUB FOOTBALL | CAPTAIN, PUBLIC REALTIONS MANAGER ----- PRINCETON, NJ

- Awarded the role of Co-ed Team Captain as a Sophomore, with the team consisting of ungraduated and graduate students. Lead trainings, organise tournaments and public outreach programs and recruit students to join the team. SEPT 2019 – PRESENT

### ENGINEERING EDUCATION SCHEME | TEAM LEADER ----- TAVISTOCK, UK

- Lead a team through a real-life engineering project to reduce air leakage in server cabinets where the wires enter. Worked as the main contact between the company and my team, leading us to win 2 rounds of competitions and received the National Innovation Award against 200 teams and successfully have the design internationally patented. SEPT 2016 – SEPT 2017