Palmer Paul

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Please inquire for additional contact info.

EXPERIENCE

Google Summer of Code — *Participant for Elm Software Foundation* MAY 2017 - AUGUST 2017

- Successfully created Elm framework for making native iOS applications
- Built a "native bridge" to marshal data between Elm / JavaScript and Swift via JavaScriptCore
- Designed and implemented custom virtual-dom code using novel data structures to lower stress on bridge
- Developed a Python command line tool for compiling and creating Xcode projects from Elm programs
- Wrote several status updates in the form of public blog posts

University of Pennsylvania — *CIS 120 Teaching Assistant* JANUARY 2017 - PRESENT

- Teach OCaml and Java syntax, data representation, abstraction and modularity, TDD, etc.
- Lead hour-long, weekly recitation of approximately 20 students
- Grade homework and exams and hold weekly office hours

Sefaria — *Software Engineering Intern* MAY 2016 - JULY 2016

- Developed highly-requested feature to export proprietary documents called source sheets to Google Docs
- Implemented robust and reusable authentication logic using OAuth 2.0 protocol
- Created API endpoint in Django and wrote frontend code to display feature in user interface
- Transformed source sheet data into Google Doc format and uploaded file to user's Google Drive account

EDUCATION

University of Pennsylvania, Philadelphia, PA
Candidate for Bachelor of Science in Engineering MAY 2020 (expected)

- Major in Computer Science with Minor in Mathematics
- Relevant coursework: CIS 552 Advanced Programming (Fall 2017); CIS 240 Introduction to Computer Architecture (Fall 2017); CIS 121 Data Structures and Algorithms; CIS 262 Automata, Computability, and Complexity; CIS 160 Mathematical Foundations of Computer Science; CIS 120 Programming Languages and Techniques I; MATH 240 Linear Algebra and ODEs (Fall 2017); MATH 114 Multivariable Calculus

Abraham Joshua Heschel School, New York, NY
High School Diploma JUNE 2016

- Instrumental in establishing the school's computer science program

PROJECTS

Processing Mobile MAY 2015 - AUGUST 2015

- Authored and maintained library for Processing.js programming language
- Extended language with support for touch events and reading from mobile device sensors
- Presented demonstration on how to use library at conference at NYU ITP

LANGUAGES AND TECHNOLOGIES

Python; JavaScript; Java; Elm; OCaml; Processing; HTML/CSS; Twitter Bootstrap; Swift; Node.js; OpenCV

AWARDS

1st Place High School Division, Technion Innovation Challenge (April 2016): Designed and built Rube Goldberg machine with a team. Independently compiled and edited footage of machine into submission video.