

Tito Yak Kuol

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Education

Harvard University
AB in Computer Science

Cambridge, MA

Alliance High School

Kikuyu, Kenya

Graduated with 12.0GPA. KCSE mean grade A in Mathematics, Biology, Chemistry, Physics, English, Kiswahili, Business Studies, and Christian Religious Education.

Technical Skills

Programming: JavaScript, Python, C, SQL, OCaml, HTML, CSS, R & R-Markdown, Node.js

Frameworks and Libraries: Flask, Django, jQuery, Bootstrap, React

Projects

MiniML: <https://github.com/TitoYak211/project>

Implemented a subset of OCaml in the form of an interpreter for expressions of the language written in OCaml itself, a METACIR- CULAR INTERPRETER. This mini OCaml is a series of interpreters that vary in the semantics they manifest. The first is based on the substitution model; the second, a dynamically scoped environment mode; and the third, a version of the second implementing one and more extensions with lexical scoping.

Finance: <https://github.com/submit50/TitoYak211.git>

Implemented a web application via which users can manage portfolios of stocks. Not only does this tool allow them to check real stocks' actual prices and portfolios' values, it also lets users buy and sell stocks by querying [IEX](#) for stocks' prices.

CS_Concentration: <https://github.com/submit50/TitoYak211.git>

Built the "Harvard CS Concentration", an interactive web application that allows CS concentrators in Harvard to create virtual carts for courses they have or plan to take beyond introductory classes. The selected courses are listed along with concentration requirements they satisfy towards graduation.

Dadu: <https://github.com/TitoYak211/dadu>

Dadu is a Swahili word for 'I play'. Implemented it as a strategy game, a version of dice game for two players. It allows players to play as many times as they want to accumulate points in each round. There is a default winning points or they can set a winning target. Players choose to 'hold' to protect their points in each round or risk losing all if they score 1 in a round.

Experience

Twende Carpool: Software Engineer Intern

June – August 2019

Designed and built user profile page to enable registered users to access, view, and edit their personal details. This also involved settings where users can specify personal information, they want to be accessible to the public. Also implemented sign up and log in authentication procedures for mobile users.

Harvard Summer School: Proctor

April – August 2018

Worked with the dean of students, the director of the Secondary School Program, and the Summer School assistant deans in supervising, informing, and advising students to create a safe, hospitable environment conducive to an academically productive summer experience.

Leadership & Activities

Harvard Political Review: Staff Writer

January 2018 – present

Correspond on current political affairs in Sub-Saharan Africa e.g. <http://harvardpolitics.com/world/looking-downstream-the-future-of-nile-water-politics/>.

The Harvard Crimson: Editor

January 2018 – present

Debate and write the official opinion of the newspaper. Edit opinion articles and vote on ones that need to be published.