Anton Outkine
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Sophomore at the University of Chicago, self-taught programmer

Work History

Motorola Solutions, Software Engineering Intern (Chicago) *Summer 2021*
Worked on the Global Information Services team. Planned, developed, and QA'ed a consumer-facing feature that allows for importing and exporting mission-critical data using Excel files. Worked with a C# .NET Core server and an Angular UI.

M1 Finance, Software Engineering Intern (Chicago) *Summer 2019*
Worked as the go-to developer for the marketing team. Programmed a customer value model in Jupyter Notebook, built several investment return calculators in React, and improved usage of mobile acquisition vendors (AppsFlyer and Salesforce marketing cloud).

Art. Lebedev Studio, Software Engineering Intern (Moscow, Russia) *Summer 2018*
Hired as the youngest developer at a Russian design studio. Created a landing page for a work collaboration platform, revived a Django site for housing large photo collections, and programmed a Three.js text animation for a government agency.

Personal Projects

Robot Rumble (robotrumble.org, github.com/robot-rumble)
I designed and programmed an AI competition website. Players write a program for a team of robots (either red or blue), and then those programs fight one another in 1v1 ranked battles.

The Battle Arena

The website uses Scala Play and embedded Elm components for dynamic portions. The Play app lives in an AWS ECS instance and uses Akka, AWS SQS, and AWS Lambda to simulate battles, with the cloud architecture managed by Terraform. The remote code execution model (which runs JS and Python on the browser, desktop, and Lambda) uses Webassembly and Rust.

In August, my fellow Rust programmer and I successfully ran a tournament of 50 participants and more than 10k battles. Our beta launched in 2021.
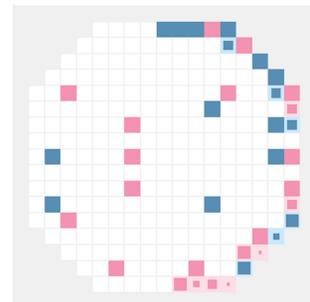
Leadership

University of Chicago, Teaching Assistant *March 2021–May 2021*
Served as a TA for Creative Coding, a project-based introductory programming class. Forked the React and express.js-based p5.js web editor for use in the course, adding routine code snapshots and a UI for submitting assignments from within the editor.

CodeDay, Chicago Regional Manager *December 2018–June 2020*
CodeDay is an overnight competition that happens 3x/year across the U.S. Led a dozen volunteers in promoting and running the Chicago event with over 100 participants. Gave workshops on Python, Elm, and React.

Education
Class of 2024, University of Chicago (Computer Science major, 4.0 GPA)
Class of 2020, Northside College Prep High School (4.0 GPA)
Languages: native English and Russian speaker, conversant in Spanish and Toki Pona