Jake Koenig



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EDUCATION

2017-2021 Math PhD program at the Ohio State University (left with masters)

Specialization: Random Matrix Theory

2012-2015 B.S. at the University of Chicago

Major: Math GPA: 3.72

PUBLICATIONS

J. Koenig and H. Nguyen (2022). Rank of Near Uniform Matrices. Journal of Combinatorics, $13(3)\ 397-436$.

Bhargava, A., DePascale, J. & Koenig, J. The Rank of the Sandpile Group of Random Directed Bipartite Graphs. Ann. Comb. (2023). https://doi.org/10.1007/s00026-023-00637-3

Jake Koenig. Exponential Growth for Babies. Self published children's book. https://www.amazon.com/Exponential-Growth-Babies-Jake-Koenig/dp/BOBMJQ8X5L

Work

October 2021 to Present

Software Engineer at The Arena Group

Worked on their commenting system and backend. Q1 2023 launched rojo a community site for commenting on sites owned and operated by the Arena Group.

Winter 2016 to Spring 2017

Software Engineer at Google

Worked on Dynamic Links and other Firebase Products.

Summer 2015 | Software Engineering Intern at Palantir Technologies

Summer 2014 | Software Engineering Intern at IMC Financial Markets

SKILLS AND TECHNOLOGIES

Languages: Python, Typescript, Clojure, Vimscript

Developer Tools: chatGPT, copilot, git, vim, tmux, sql, aws, gcloud

Libraries: Flask, Numpy, Express Project management: Agile, Jira

Assorted Side Projects

Kalshi Market Maker

Code not available, written in clojure. An ongoing project to trade at a high frequency on the prediction market exchange Kalshi. I did

\$500k of volume in May 2023.

PREDICTION ALERTS

Hosted here, code here. A price alert service for the trading platforms Kalshi,

Predictit and Polymarket.

CHATVIM
TMUX POM
AUTOGIT.VIM

Code here. A plugin for talking with Chat GPT in vim.

Code here. A tmux pomodoro plugin.

Code here. A vim plugin for automatically keeping repos in sync. Intended for use with personal notes and dotfiles.

JA3K.COM

A personal site for which I made my own static site generator. SSG code here, site code here.