

LUKE TONG

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EDUCATION

University of Pennsylvania

BSE in Computer Science. Minor in Math, Philosophy

Philadelphia, PA

GPA: 3.92, Major GPA: 4.00

RELEVANT COURSEWORK

CS: Scalable and Cloud Computing, Programming Languages and Techniques

Math/Statistics: Probability, Multivariate Calculus, Discrete Mathematics

EXPERIENCE

SWE Intern

TelVue Corporation

June 2024 – Present

Mount Laurel Township, NJ

- Delivered feature tickets and bug fixes on broadcast MVC application
- Developing AI-driven solution to automate agenda creation for government meetings
- Utilize WebVTT caption transcripts and OpenAI prompts to extract key moments and highlights with timecodes

Developer

Penn Labs, University of Pennsylvania

January 2024 – Present

Philadelphia PA

- Create and maintain web/mobile products used by over 100,000 unique Penn students
- Develop full-stack web applications using Django, Next.js, PostgreSQL, and AWS CDK
- Migrate course alert functionality from Penn Course Alert to Penn Course Plan for more intuitive UX
- Collaboration with Penn Admin to implement student moderated, anonymous comments into Penn Course Review

Project Lead

Penn Spark, University of Pennsylvania

September 2023 – Present

Philadelphia PA

- Create semesterly passion/client computer science projects
- Led a team of 9 developers to create a social events bulletin for Penn students
- Develop full-stack applications with React, AWS Lambda, PyTorch, and Docker

Undergraduate Teaching Assistant (CIS 1600)

University of Pennsylvania

May 2024 – Present

Philadelphia PA

- Teach discrete mathematics to recitation of 15 students
- Hold weekly office-hours
- Participate in weekly grading sessions

PROJECTS

Sparkify | Python, Svelte, Lambda, Docker, Git

September 2023 – December 2023

- Developed a web application to visualize user music tastes as a collage
- Implemented Spotify OAuth to get user's music taste
- PyTorch+Pillow Lambda function to perform image manipulation on album covers

The Tower Newspaper | Next.js, UI/UX, PostgreSQL, Prisma

May 2018 – May 2020

- Built and maintained full-stack newspaper website with 15k monthly views
- Migrated from expensive WordPress site to a free hosting service

Asciiframe | Rust, OpenCV

January 2022 – May 2022

- Use OpenCV to decode videos and convert to streams of ASCII characters watchable in the terminal

TECHNICAL SKILLS

Languages: Java, Python, C, C++ , SQL, JavaScript/TypeScript, Rust, Go, HTML/CSS, Ruby

Frameworks: React, Node.js, Django, Next.js, Rails

Developer Tools: Git, Docker, AWS CDK, Linux

Libraries: PyTorch, OpenAI, Pillow, numpy, Matplotlib, Apache Spark