LUKE TONG

609-216-5485 | luke.rtong@gmail.com | https://lukert.me

EDUCATION

University of Pennsylvania

Philadelphia, PA

Bachelor of Science in Computer Science, Minors in Math, Philosophy

Aug. 2023 - May 2027

GPA: 3.92, Major GPA: 4.00

• NETS 2120: Scalable and Cloud Computing

• STAT 4300: Probability

• MATH 1410: Multivariate Calculus

EXPERIENCE

Incoming SWE Intern

June 2024 - Present

TelVue Corporation

Mount Laurel Township, NJ

Project Lead at Penn Spark

September 2023 – Present

University of Pennsylvania

Philadelphia PA

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

Developer at Penn Labs *University of Pennsylvania*

February 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
- · Migrated course alert functionality from Penn Course Alert to Penn Course Plan for more intuitive UX
- Collaborating with Penn admin on how to best implement comments into Penn Course Review while maintaining confidentiality, preventing spam, and establishing unbiased moderation

Undergraduate Teaching Assistant (Discrete Mathematics)

August 2024 – Present

University of Pennsylvania

Philadelphia PA

- · Hold weekly office-hours
- Teach recitation and go over lecture content
- Participate in weekly grading sessions

Infy Tech Pioneer

December 2023 - January 2024

Infosys Foundation USA

Charlotte, NC

- Immersion in GenAI, Prompt Engineering, and AI/ML in Python
- Creating a PDF summarizer using Jupyter Notebook and OpenAI in Python

PROJECTS

Sparkify | Python, Svelte, Lambda, Docker, Git

September 2023 – December 2023

- Developed a full-stack web application using a SvelteKit frontend and Python backend
- Implemented Spotify OAuth to get user's top songs/albums
- Visualize user music tastes into an aesthetic collage of album covers and photos using PyTorch and Pillow

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

May 2018 - May 2020

- Migrated primary website from a Wordpress site to a freely hosted Next.js application
- Utilized server side routing to connect PostgreSQL database

Asciiframe | Rust, OpenCV

January 2022 - May 2020

• Used Open Computer Vision to convert videos to streams of ascii characters that can be watched 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