

# Nick Zhong

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## EDUCATION

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- **Carnegie Mellon University** Pittsburgh, PA  
*B.S. Electrical and Computer Engineering | Minor Computer Science* 2020 - 2024
  - **Coursework:** Computer Networks (G), Cloud Computing (G), Deep Learning (G), Computer Security, Embedded Systems, Web Application Development, Data Structures & Algorithms

## SKILLS

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- **Languages:** Python, C, Javascript, Java, HTML/CSS, LaTeX, Bash
- **Frameworks:** PyTorch, Mongo/Express/React/Node, Nginx, React Native
- **Tools:** Git, Kubernetes, Terraform, Docker, GCP, AWS, Azure

## EXPERIENCE

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- **Langham Hall** Singapore, SG  
*Database & Information Systems Intern* Jun 2022 – Aug 2022
  - Migrated WordPress intranet server and database to a private cloud and set up MFA login
  - Automated generation and dispatch of side letters and investment data requested by clients

## RESEARCH AND PROJECTS

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- **SGS ClinicalHelper App** Aug 2024 – Present
  - Building a React Native app that fully digitizes the self-reporting process for clinical trial participants
  - Currently participant compliance is a critical challenge for clients such as L'Oreal, Johnson&Johnson
- **Teach the Shoah/SWIGGI Interactive Museum Tour Guide** Jun 2024 – Aug 2024
  - Built an interactive browser companion app with ReactJS for a Holocaust museum in Vienna
  - User-friendly interface tracks location and automatically opens display cards when visitors approach exhibits
- **DARPA SubTerranean Challenge | Robotics Institute** Pittsburgh, PA  
*Research Assistant* Sep 2020 – Jun 2021
  - Wrote SLAM algorithms for a blackbox sensor system attached to state-of-the-art snake robots
  - Analyzed recursive Markov blanket approach for feature extraction from multi-modal sensor output data
- **CNT Wearables | NanoTech Institute** Dallas, TX  
*Research Assistant* Jan 2020 – Jul 2020
  - Fabricated flat, lightweight, flexible loudspeakers using high thermoconductivity carbon nanotubes sheets
  - Wrote audio processing algorithms for parallelized speaker system to play more complex music

## EXTRACURRICULARS

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- **Phi Delta Theta Secretary** Jan 2022 – Dec 2022
  - Executive-board member, oversaw committee meetings and started an alumni newsletter program
- **Core@CMU Teaching Assistant** Aug 2021 – Jan 2023
  - Led weekly recitation sessions and office hours for 2 sections of a 200-man roster