

Kevin Liu

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EDUCATION

University of Illinois at Urbana-Champaign

GPA: 3.98/4.0

Bachelor of Science in Mechanical Engineering, Minor: Computer Science

May 2021

Relevant Coursework:

Data Structures and Algorithms • Data Mining • Data Science and Visualization • Database Systems • Intro to Robotics

Master of Computer Science

Dec 2024

Relevant Coursework:

Web Programming • Bioinformatics

WORK EXPERIENCE

Sargent and Lundy

June 2021 - August 2023

Instrumentation & Controls Engineer

Chicago, IL

- Justified 2 analog-to-digital level transmitter replacements for Monticello Nuclear Generating Plant. and 1 for South Texas Nuclear Generating Station
- Specified replacement components for Analog Processing Controls for Prairie Island Nuclear Generating Plant
- Revised 6 setpoint/uncertainty calculations to bring the Prairie Island Nuclear Generating Plant into accordance with NRC Generic Letter 91-04.

MathWorks

June 2020 – August 2020

Engineering Development Group Intern – Release Engineering

Natick, MA

- Developed 4 web apps with Javascript, HTML, and PHP to streamline creation and management of SCM branches through use of web API to automatically generate and send work requests to Systems Engineering team
- Investigated test and build failures within 2 different SCM branches, and collaborated with release engineers to implement fixes
- Created two actionable error reports during company-wide Matlab and Simulink bug testing event
- Developed Matlab app modeling spread of infectious disease with 5 other interns during hack day event

K.R. Komarek

May 2019 – August 2019

Engineering Intern

Wood Dale, IL

- Wrote C# application to extend Autodesk Vault data management client by extracting title block data from CAD file with open-source LibreDWG library
- Updated relevant file properties in server for 2000+ legacy machine components, saving thousands of dollars in consultant fees
- Reverse-engineered legacy machine components with Autodesk Inventor for presentation to potential clients, resulting in at least one sale
- Built Excel utilities to graphically represent data from Epicor ERP system for use in annual vendor delivery report
- Modified unfinished briquet volume calculator in Excel VBA for use by sales personnel

LEADERSHIP AND ACTIVITIES

Nanoscale Manufacturing Node | <https://nanohub.org/resources/gsaimage/about> October 2018 – January 2020

Software Developer

Urbana, IL

- Engineered Python graphene image processing application with PyQt5 GUI framework currently used in North America, South America, Europe, India, China, and Australia
- Cited in American Chemical Society Publication
- Added “paintbrush” functionality requested by undergraduate students using pyqtgraph and numpy to allow users to manually “color” graphene substrate with mouse
- Enhanced ability to import and export images by adding different options for file extensions
- Coordinated efforts with senior developers with ZenHub to raise and resolve QA issues

PUBLICATIONS

Crowd-Sourced Data and Analysis Tools for Advancing the Chemical Vapor Deposition of Graphene: Implications for Manufacturing.

<https://doi.org/10.1021/acsanm.0c02018>

Publication: American Chemical Society

Author: Joshua Schiller, et. al.