

Naveen Kannan

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+1(973)-519-5397

Data Scientist familiar with gathering, cleaning, and organizing data for use by technical and non-technical personnel. Advanced understanding of statistical, algebraic, and other analytical techniques with a background in Biomedical Informatics. Detail-oriented, methodical and enterprising with strong focus on devising and running effective processes.

Education

M.S in Biomedical and Health Informatics

Case Western Reserve University, Cleveland, OH

JANUARY 2022 – MAY 2023(EXPECTED)

Bachelor of Medicine and Bachelor of Surgery

Madras Medical College, Chennai, India

SEPTEMBER 2016 - MARCH 2020

GPA – 4.0/4.0

Professional Experience

Graduate research assistant

MAY 2022 - PRESENT

GIS Health and Hazards Lab, Department of Population and Quantitative Health Sciences, School of Medicine, Case Western Reserve University, Cleveland, OH

- Created scripts to obtain GPS data from GPX files of geospatial video feed from refugee camp sites located in the Democratic Republic of Congo utilizing Python.
- Cleaned the data and wrangled it into a machine readable format.
- Uploaded the data into GIS systems, namely ArcGIS.
- Utilized machine learning algorithms coded in Python to detect tents from each frame of geospatial video feed.
- Combined the GPS coordinate data with the tent detections to generate maps of refugee camps and their locations within the campsites in the DRC.
- Contributed to presenting the findings in the form of a scientific paper for publication with citations and references.

Medical observer

OCTOBER 2020 - MARCH 2021

Kauvery Hospitals, Chennai, India

- Observed medical and surgical procedures.
- Assisted senior doctors with the management of patients in the outpatient department to ensure proper diagnosis and treatment.

- Learned surgical and anesthetic skills under the guidance of senior surgeons.
- Counseled patients on follow up and adherence to medication.
- Wrote prescriptions and counseled patients on side effects of the medication.

Junior Resident Doctor

JULY 2020 - SEPTEMBER 2020

Department of Psychiatry, Saveetha Medical College, India

- Diagnosed and managed patients with psychiatric illnesses.
- Learned to evaluate and diagnose patients in stressful environments.
- Assigned a goal of management of five patients per day, which was met.
- Learned diagnostic criteria for common psychiatric illnesses

Intern Doctor

MARCH 2019 - MARCH 2020

Madras Medical College, Chennai, India

Rotated through the following departments: Internal Medicine, General Surgery, Obstetrics and Gynecology, Community Medicine, Psychiatry, Emergency Trauma Ward, Labor Ward

- Performed primary diagnosis of patients in the outpatient wards and management of patients who did not require immediate admission.
- Admitted necessary patients into the inpatient wards after ordering relevant investigations.
- Carried out the primary management of admitted patients.
- Followed up on the findings of the ordered investigations by placing intravenous lines for administering medications and blood transfusions if necessary.
- Followed up on recommendations of the Anesthetic evaluation team by ensuring patients were fit for surgeries
- Assisted senior doctors in major surgeries, both scheduled surgeries in the Operating Room, as well as emergency surgeries in the Trauma Ward and Emergency Surgical Ward.
- Deployed in Primary Health Centers, where I was responsible for immediate management of patients at the most primary level, with stabilization and referral to higher centers if indicated.
- Performed minor surgical procedures such as abscess drainage, appendectomy, hernia repair, wound debridement, skin grafts (both obtaining graft skin as well as placement and securing on graft sites)
- Part of the team responsible for immediate stabilization and management of patients in the emergency wards and within the ICU.

Publications

- **Kannan, N.**, Vellaisamy, R., Govindarajan, M., & Gounder, K. D. (2016). Pellagra following pancreaticoduodenectomy for malignant pancreatic carcinoid with pluripotent hormonal potential. *HPB*, 18, e381-e382.
- Segamalai, D., Abdul Jameel, A. R., **Kannan, N.**, Anbalagan, A., Duraisamy, B., Raju, P., & Devy Gounder, K. (2017). Mediastinal pseudocyst: varied presentations and management—experience from a tertiary referral care centre in India. *HPB Surgery*, 2017.
- Vellaisamy, R., **Kannan, N.**, Anbalagan, A., Raju, P., Duraisamy, B., Murugesan, C. S., & Gounder, K. D. (2016). Endoscopic access to hepatic duct through duodenum during follow up—after primary surgery for hepatolithiasis. *HPB*, 18, e530.

- Ramasamy, V., Vellaisamy, R., **Kannan, N.**, & Gounder, K. D. (2016). Refined technique of access loop in hepatobiliary surgery. *HPB*, 18, e593-e594.
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INVOLVEMENT

Steiner House – 11408, Bellflower Road, Cleveland, OH - 44106

The Cleveland Student Housing Association, Inc. - a 501(c)3 not-for-profit Co-operative - has been providing affordable room and board for Cleveland area graduate students from more than 75 countries, primarily aimed at international graduate students.

VICE PRESIDENT

MAY 2022- PRESENT

- Welcomed new residents, introduced them to other members, and oriented them to house rules.
- Liaison between house members and the executive board of the house to communicate information on house management.
- Organized social events once per month to foster friendship and team spirit among the house members of different cultures.
- Lead the executive committee alongside the president to manage day-to-day house functioning.

ADMISSIONS MANAGER

MAY 2022 – SEPTEMBER 2022

- Represented current house members to screen applications, conduct interviews, and evaluate candidates.
- Communicated the results of said interviews to the rest of the house to assess the status of a potential new resident.
- Admitted graduate students from around the world, including countries such as India, Bangladesh, China, Vietnam, Thailand, Nigeria, Ireland and Iran to Steiner House and assisted them with the process of moving into the United States.
- Admitted 8 graduate students into Steiner House as residents.

ORDERING MANAGER

MAY 2022 – SEPTEMBER 2022

- Managed inventory for Steiner House, with a capacity of 21 students.
 - Responsible for ensuring a steady supply of consumables and non-consumables for the smooth functioning of the House.
 - Scheduled tri-weekly restocking runs to ensure that supplies necessary for house functioning would not run out.
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SKILLS

PROGRAMMING:

- Python – scikitlearn, Keras, Numpy, PANDAS
- R expertise
- SQL
- GIS – ARCGIS and QGIS

MEDICAL/SURGICAL SKILLS:

- Intravenous line placement and securement, followed by sterile management of IV Sites
 - Drawing blood samples
 - Intubation
 - Suturing
 - Surgical skills – such as abscess drainage, appendicectomy, herniorrhaphy
 - Skin graft – both processing the graft site and securing the graft skin
 - CPR
 - ER Triage
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