

# Parthiv Naidu

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GitHub: [github.com/parthiv-n](https://github.com/parthiv-n)

Portfolio: [parthiv.co.uk](https://parthiv.co.uk)

## EDUCATION

### University College London (UCL) - MEng Biomedical Engineering

Sep 2022 – Sept 2026

- Relevant Modules: Human-Computer Interaction, Project Management, Mathematical Modeling, Machine Learning, Computer Vision for Surgery, Computing in Medicine, Solid + Fluid Mechanics, Nanotechnology

## EXPERIENCE

### MediGuru

London/Chicago

Associate Product Manager Intern

June 2024 – Sept 2024

- Implemented patient history LLM for doctors, rewriting the LLM's core system prompts, that drove a 20% increase in information retrieval accuracy
- Conducted voice of the customer surveys to write technical specifications, addressing user issues on data retrieval
- Handled confidential patient history documents and images, handling compliance with GDPR
- Owned 3 month MVP roadmap for USA's 'Food as Medicine' initiative, writing detailed user requirements from market analysis, direct customer feedback, and stakeholder input, focusing on user needs and functionality
- Directed a cross-functional team of UI designers and engineers, drawing wireframes to translate user requirements into a MVP, securing client investment of over \$30,000

### PSG Hospitals

Coimbatore, India

Hospital Management Intern

June 2023 – July 2023

- Earned Hospital Director's Commendation by presenting data-driven findings on equipment management strategies for streamlining hospital operations by 15%
- Optimized workflows for the maintenance and repair of critical medical devices, accomplishing a 30% reduction in equipment downtime across key hospital departments
- Constructed a Python application to automate data extraction from Excel spreadsheets and integrate it into hospital system, streamlining data workflows and saving 10 hours of manual data entry each week
- Performed trend analysis, accessed with SQL, to assess hospital equipment performance and identify recurring technical issues, leading to formulate a strategy of efficient preventive maintenance schedules, reducing workloads for colleagues

## PROJECTS

### Fridge.ai

UCL Innovation and Enterprise

May 2025 – Present

London

- Authored the product roadmap by gathering qualitative user interviews (20+ sessions) and quantitative market analysis
- Successfully integrated a free-tier OCR API for receipt scanning after identifying initial resource constraints. This creative solution reduced projected MVP costs by 15% while still delivering the app's core automation feature
- Drove the end-to-end development of the fridge mobile app from concept to MVP for the UCL Hatchery incubator

### Prostate Cancer Lesion Detection from MRI with Deep Learning

3rd Year Dissertation

Sept 2024 – May 2025

London

- Developed and deployed deep learning models (nnUNET and Swin-UNETR Transformers) for automated prostate cancer detection, achieving Dice similarity scores of 0.91+, using High Performance Computing Clusters
- Deployed semi-supervised techniques, reducing annotation dependency, maintaining a high detection sensitivity of 82%
- Conceptualised a go-to-market plan for the software as a medical device product, for use by radiologists

## LEADERSHIP POSITIONS

### UCL Engineering Society

Marketing Director

June 2024 – June 2025

- Utilised PhotoShop and Canva to revamp our social media pages, focusing on prestige and providing value to members
- Strategic planning of interactive social media posts reaching over 3000 members, growing social media followers by 10%
- Secured sponsorships from Qualcomm, Bloomberg and Shell, securing £8,000+ in society funding

## ADDITIONAL INFORMATION

**Coding Languages:** Python, PyTorch, SQL, JavaScript, React, HTML, CSS, and  $\text{\LaTeX}$

**Software Skills:** Adobe Creative Cloud, Figma, Canva, Framer, Miro, Tableau

**Other Leadership Roles:** Gear Secretary + Welfare Officer (UCL Muay Thai)