

Sheamol Obeda

University of Cambridge, Masters in Engineering

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EDUCATION

King's College, University Of Cambridge

October 2018 – June 2022

MEng – Class II.1 Information and Control Engineering

BA Hons – Class I Aeronautical and Aerospace Engineering

Papers include: Business Economics, Strategic Management, Machine Learning, Deep Learning and Structured Data, Computer Vision, Control System Design, Fluid Mechanics – First two years consisted of general engineering

WORK EXPERIENCE

BidFX

5th Floor, York House, Kingsway, London

Graduate Technologist

October 2022 – Current

- Rotations in integration, infrastructure, development operations and quality assurance
- Became comfortable using the FIX api by on-boarding 3 clients within a 4 month rotation
- Migrated over 500 users from hard coded internal system to central location by using automation software such as Selium

Untitled Video Game

Co-founder, Developer, Business Development Lead

March 2023 – Current

- Founded a video game start up for the aim of development and production release of a video game
- Created and developed an interactive story for user engagement
- Lead all marketing, crowd funding and business development for the project

King's College Summer Research Programme

King's College, Cambridge

Cambridge Computer Lab – Student Researcher

June 2021 – September 2021

- Created system to identify diseases in animals measured by comparing the output to over 200 data points, by analysing gait using computer vision and machine learning techniques
- Detected abnormal gait by comparing 100 hours of video footage to a known list of infected animals by implementing a convolution neural network

The MTC

Ansty Park, Coventry

Design for Additive Manufacturing Team – Summer Intern

July 2019 – September 2019

- Designed a system to reduce waste and streamline processes in additive manufacturing by using topology optimisation
- Declared geometric dimensioning and tolerancing on a technical drawing by utilising Solidworks and NX user interfaces

Sheamol Obeda Photographic Services

Cambridge

Owner and Photographer

September 2018 – June 2022

- Constructed photography business with over 50 clients for services such as events, social media, fashion and portraits
 - Marketed services to over 10,000 people using social media and online engagement
 - Cultivated a digital presence to reach a wider audience by producing a website for potential clients to interact with
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PROJECTS

Wireless Motion Capture

Centre for Advanced Photonics and Electronics, Cambridge

Masters Project

October 2021 – June 2022

- Recreated 3 dimensional motion of a model human arm by using body mounted accelerometers and gyroscopes
- Analysed motion data from sensor units by programming an Arduino and using MATLAB to process the data
- Achieved wireless communication from sensor units to remote processing unit using WiFi communication protocols

Natural Language Processing of Student Social Media Page

December 2021

- Tracking trends in the student body's collective thoughts by analysing over 200,000 Facebook posts made by an anonymous student confessions page
- Displayed collected data to a target audience of 100,000 followers by using natural language processing libraries and data visualisation and handling libraries such as pandas and matplotlib

Tennis Player Ranking

November 2021

- Ranking all tennis players from the 2016 championships from each player's performance statistics by using probabilistic machine learning techniques
- Predicting the outcome of future games by using methods such as Bayesian Inference, Gaussian Processes, and Latent Dirichlet Allocation

Integrated Design Project

February 2020 – March 2020

Project Leader

- Project leader for a team to deliver a fully autonomous robot to locate and pick up obstacles
- Superheaded design process for the team by keeping the team on target to deliver the milestones set
- Fabricated mechanical system to house all components by using Solidworks, LTSpice, 3D printing and laser cutting

Hack Cambridge

January 2020

- Created a prototype centralised data system to be used with medical records with a team of 3 other students
 - Implemented a data extraction system by combining Python and C++ with Microsoft Azure's optical character recognition
 - Represented the team to a panel of judges by creating a pitch deck and business strategy for the product
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ACTIVITIES

Entrepreneurship

Owner, Co-founder and Developer of video game business

March 2023 – Current

King's Entrepreneurship Lab

September 2021 – June 2022

- Attended week long conference teaching entrepreneurship skills
- Seminars included topics on start up funding, intellectual property law, and growing ideas into businesses
- External speaker events from Herman Hause and Warren East

Owner of photography and videography business – Portfolio on [Sheamol.com](https://sheamol.com)

September 2018 – June 2022

Face-to-Face, Telephone and Written Communication

Volunteer crew member at 50 Years of Women at King's Festival

June 2023

Reviewer of theatre productions for the Varsity newspaper – varsity.co.uk/profile/sheamol-obeda

August 2022

Steward at the Amateur Dramatic Club Theatre

September 2018 – June 2022

Social Secretary and General Committee Member for Cambridge University Ceilidh Band

April 2020 – April 2022

College Alumni Fundraising Campaign

December 2020

- Talking to college alumni over the phone to achieve highest number of calls over three consecutive weekends
- Secured over £20,000 of donations in total for use by the college for student amenities

Leadership

Treasurer of the Cambridge Cardboard Boat Race

April 2022 – June 2022

- Directed and marshalled the annual Cambridge Cardboard Boat Race with more than five thousand spectators
- Procured funding from sponsors used for waste management and equipment

Campaign Manager for Zaynab Ahmed, Cambridge Students' Union

March 2022, March 2021

- Led the winning team for two consecutive years: President 2022 and Access, Education and Participation Officer 2021
- Created and executed a campaign plan which included strategies for social media, flyering, hustings and speeches

The Cambridge Period Project

September 2021 – June 2022

- Leading a charity with focus on providing period products to the Cambridge community
- Managed the marketing and development team, use social media (Facebook, Twitter, Instagram)

Cook and Team Lead at Cambridge Community Kitchen

September 2021 – June 2022

President of Cambridge University TaeKwonDo Club

April 2021 – April 2022

President of King's College Darkroom

September 2021 – June 2022

President of King's College Cardboard Boat Club

September 2021 – June 2022

Sports, Societies and Freshers Officer for KCSU

March 2019 – March 2020

- Superheaded organisation and delivery of freshers week 2019
- Overlooked all student societies and sports within college

Social Media Management

Admin of anonymous student submissions page

March 2021 – June 2022

- Daily oversight of a Facebook page with over 21 thousand followers
- Moderation of submissions, posts and comments to this page

Webmaster for *The Cambridge Period Project*

September 2021 – June 2022

Webmaster, Publicity and Design Officer for *Cambridge University BanglaSoc*

March 2020 – April 2021

- Designed and deployed websites
- Constantly renewed the website with up-to-date news and events
- Focus on user experience, ease of use and accessibility, use of HTML and CSS

LANGUAGE AND IT SKILLS

Languages: English (Fluent), Bengali (Mother Tongue), British Sign Language (Beginner), German (Beginner), Mandarin (Beginner), Japanese (Beginner)

Computer Literate: Word, Excel, PowerPoint, Outlook, Photoshop, Lightroom, Illustrator, PremierPro, Solidworks, NX, LTspice, IntelliJ, VS Code, Arduino IDE, Zortero, vim

Programming and Markup: Python, Java, C, C++, SQL, MATLAB, git, raspbian, CSS, HTML, Linux, cmd, L^AT_EX

INTERESTS

TaeKwonDo: Black Stripe, British University Championships in Nottingham 2022, Varsity Squad for the University of Cambridge in 2022, 2020 and 2019

Other Sports: Surfing (Anglesey, Peniche, Newquay), Bouldering, Skateboarding, Longboarding, Snowboarding (Val Thorens 2021), Roller skating, Rowing (Second Men's Boat, King's College 2019 and Northampton Time Trials, Bishop Vesey's 2017), Running (Cambridge Half Marathon, April 2022)

Darkroom and Digital Photography: Darkroom photography experience since 2011, exhibits in King's College and Birmingham Art Gallery, portfolio on Sheamol.com

Improvised and Stand-up Comedy: Stand up shows with the Cambridge Footlights in Cambridge and the Edinburgh Fringe, solo show in Val Thorens, improvised comedy shows with the Cambridge Impronauts in Cambridge, improvised musical shows with the Showstoppers in London

Folk Musician: Bodhran, Fiddle, and Accordion player, gigs in Cambridge, Oxford, Birmingham, Yorkshire, Devon and Cornwall

Life Modelling: Modelling for professional artists (Frontier Games) and student events (Architecture Society, Fitzwilliam Museum After Dark)
