



# RAHUL SETH

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## EDUCATION

### Trinity College, Dublin

BAI Computers and Electronics Engineering

Ireland

2018–2022

#### Dissertation: “Surveying Long-Term Cryptographic Keys in Ireland” | [GitHub](#)

- Developed network scanner to identify and survey mail servers in Ireland, extracting and processing cryptographic data.
- Modelled and modelled public key sharing for 20000 servers across all standard ports by clustering on SHA-256 fingerprint

## WORK EXPERIENCE

### Baker Hughes

Software Engineer

Ireland

Mar’23 – Present

- Spearheaded design and development of an enhanced UI/UX for a legacy oxygen sensor, leading to the modernization of the product.
- Developed a feature-rich LCD interface with user-friendly navigation and optimized code architecture in C, improving UX.
- Initiated the implementation of CI/CD with Parasoft on GitHub, automating code analysis and significantly reducing rework by 29%.
- Enhanced system functionality and user interaction by integrating the bootloader and linking Data Manager with HMI.
- Established standardized design practices with other engineers, developing a globally accessible Python-based icon library to unify visual elements across products.

Graduate Software Engineer

Aug’22 – Mar’23

- Created a HMI emulator for debugging, lauded by stakeholders. Reduced hardware reliance, accelerated feature dev, and chosen for client training.
- Automated image-to-hex conversion and project builds using Python, ensuring seamless feature development; Saving 2 hrs per feature
- Optimised Agile boards by decomposing user stories into tasks and coordinating sprints; increased productivity by 8%.

### Ericsson

AI/ML Intern

India

Jun’21 – Aug’21

- Analysed large datasets; applied ML models like Linear Regression, Decision Trees, and AdaBoost for predictive analysis.
- Utilised 5 performance metrics including recall, f1score, precision, accuracy and ROC curves to assess the performance.
- Applied K-Means algorithm on the historical IT dataset; hyper-tuned the model using elbow curves, and silhouette method to identify optimal clusters.

### Lepton Software

Market Research Intern

India

Jun’19 – Aug’19

- Leveraged advanced Excel functions like vlookups, pivot tables, and sorts to perform in-depth analysis of 5G market data.
- Presented to stakeholders a strategy on how Lepton can differentiate itself from competitors by leveraging services they offer.

## PROJECTS AND ACTIVITIES

### BCG Gamma Experience

Data Science

Virtual

Jun’23

- Enhanced understanding of problem-solving processes and working with challenging data analysis tasks.
- Developed practical experience in business problem framing, exploratory data analysis, feature engineering, predictive modeling, and turning insights into business decisions.

### Formula Trinity AI

State Estimation and Path Planning

Ireland

Nov’20 – May’22

- Improved sensor data accuracy in autonomous racing car systems by implementing Particle and Kalman filters for noise reduction.
- Optimized racing line selection using A\* and Dijkstra’s algorithms for maximum performance and speed in autonomous racing cars.
- Mentored new recruits in Python, ROS, and state estimation algorithms, enabling their seamless integration into the team.

### Email Client

- Designed an email client for macOS (Unix) architectures; incorporated features like login, search, compose and schedule send
- Implemented the backend and API calls using Python and utilised Kivy for UI design

## SKILLS

**Programming:** C, C++, Python, SQL, XML, Git, Matlab, Verilog, JavaScript, R, Static Analysis, OOP, TeX.

**Technologies:** GitHub, IAR, Parasoft, PostgreSQL, Visual Studio, Linux, Wireshark, SPSS, Protoge, MS Office.