

# Francis Nana-Dabankah

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## Personal Statement

I am someone who enjoys being challenged and working on projects that force me to go beyond my comfort zone and existing knowledge base. I enjoy learning new languages and development techniques and I believe this would be an asset to me whilst getting to grips with your codebase as well as some of the other technologies within your stack that may be new to me.

## Experience

### American Express

Sep 2019 – Present

#### Graduate Technology Engineer – GR (Global Remittance)

Burgess Hill, UK

- Began development of internal end-to-end testing software to monitor all data entering and leaving the GR platform as well as the state of that data whilst between applications.
- Used Java and Spring to write software to access relational databases (Oracle and DB2), Splunk logs and Kafka message queues. Used Cucumber to create feature files to test specific flows across the GR platform
- Created a tool to dynamically generate feature files
- Used Docker to spin up instances of databases, message queues etc for local development purposes
- Helped to begin the automation of a process that was previously done manually by a QA thus improving overall team productivity

#### Graduate Technology Engineer - BIP (Buyer Initiated Payments)

- Began development of new initiative called 'Project Simple' – implemented to greatly simplify the supplier enrolment process for new business suppliers
- This involved
  - React/OneApp development and testing using the Jest framework
  - Designing and implementing RESTful API's using Swagger/Java
  - Java testing using the Mockito framework
  - Integrating java code with various stored procedures
  - Learning new deployment frameworks e.g LARA, XLR
  - Developing my skills with Amex's OneData, learning how to create business and SOR functions

#### Graduate Technology Engineer – NeMo (Network Modernization)

- Began work on the Authorizations section of NeMo
- Familiarised myself with the Drools rules processing engine
- Analysed transaction data (using the Amex 'Test-S' tool) to highlight discrepancies and missing information/validations and made subsequent rule/validation modifications to resolve them
- Have become conversant with ISO8583 messages

### American Express

June 2018 – August 2018

#### Intern Technology Engineer

Burgess Hill, UK

- Joined the Travel and Lifestyle Services (TLS) team. Worked on the Fine Hotels and Resorts website
- Used angularJS for front end development creating an image carousel which was put in live production
- Worked within scrum team
- Used React and Java to develop an internal receipt review system for AmEx affiliated rewards points company LoyalBe
- Helped to teach secondary school girls various computer science related lessons as part of an AmEx CodeGirls program including leading the teaching of an HTML course

### University of Leicester

Sep 2017 – June 2019

#### Elected Course Representative

Leicester, UK

- Liaised between students and staff, dealing with issues using effective communication and negotiation skills (thus receiving official university accreditation)
- Chaired meetings of the Student Staff Committee

## University Projects

(more at <https://github.com/francisnd96?tab=repositories>)

### "Tenjin"

Java, Less, JavaScript, Cucumber

### Online Shop

Java, Spring Security, Spring JPA, JSP

- A web application allowing students to take online classes, similar to CodeAcademy

#### **E-Petition Website**

*Java, JavaScript, HTML, AJAX, Java Servlets, JSP, MySQL*

- Site where logged in users can create/sign petitions, leave comments on petitions and see a visual bar chart representation of petition signatures

- Web app allowing user to securely be authorised/authenticated and proceed to purchase various goods.

#### **Canteen Ordering System**

*Java, Firebase Realtime Database (NoSQL), SQLite, XML*

- Android application allowing user to order various foods for pickup from a canteen
- Contains various API integrations including Google Sign In, Share to Facebook and payment with Paypal

## Education

**University of Leicester**  
*MComp Computer Science*

Sep 2015 – May 2019  
1<sup>st</sup> Class Honours

## Skills

**Programming (Proficient)**  
**Programming (Familiar)**  
**Libraries/Platforms**

Java (incl. Android App Development), C#  
Python, PHP, JavaScript, JQuery (+AJAX), C++, React  
Cucumber/ JUnit Testing, Spring JPA, Spring Security, JSP, JavaFX, WCF Web Service, Microsoft Azure Cloud Computing, Docker, LARA, Kafka, Vert.x, Mockito

**Markup/Templating**  
**Data/Databases**  
**Working Practices**

HTML, CSS, Markdown  
SQL, SQLite, NoSQL (incl. Firebase Realtime Database)  
Agile Methodologies (incl. Scrum), Test Driven Development (TDD), Behaviour Driven Development (BDD), Git Version Control, SVN

## Activities

**Graduate Assessment Events**  
**BAE Systems Capture the Flag**  
**HackSussex**  
**TARGETjobs © Undergraduate of the Year**  
**Leicester University Debating Alliance**

*AmEx Interview Process*  
*Hackathon at University of Leicester*  
*Hackathon at University of Sussex*  
*National Competition*  
*University Debating Competition*

Interviewer/Buddy (2019/20)  
Competitor (2018)  
Judge (2019)  
Shortlisted (final 18)  
Finalist (2018)