

# PATRICK BOATENG

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🌐 [patrickboateng](#) | in [Patrick Boateng](#)

## EDUCATION

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**Bachelor's degree**

**Sep 2017 - Nov 2021**

**Kwame Nkrumah University of Science and Technology**

- **Programme:** Bachelor of Science in Civil Engineering
- **Honor:** First Class [3.76/4.0] - *Scholaro GPA Calculator*
- **Thesis:** Predicting the compressive strength of concrete using machine learning techniques.
- **Key Courses:** Introduction to Finite Element Methods | Algebra | Numerical Analysis | Statistics and Probability | Differential Equation | Soil and Rock mechanics | Computer Aided Design (AutoCad) | Computer Programming (MATLAB) | Construction Management

## HONORS AND AWARDS

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- Provost Excellent Students Awards, College of Engineering (KNUST) in Level 300
- Provost Excellent Students Awards, College of Engineering (KNUST) in Level 400

## WORK EXPERIENCE

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**Assistant Consulting Engineer**

**Sep 2022 - Present**

**Heureka Consult Limited**

**Full Time**

- Performed quality assurance and quality control procedures for construction projects, including overseeing the Cardinal Namdini gold mine's water storage and tailings dams.

**Roles:**

- i.
- ii.

iii. Generated laboratory reports for the client.

- Conducted geotechnical site investigations for road projects, such as the Accra-Ofankor road rehabilitation.

**Roles:**

- i. Analyzed laboratory test results and made engineering judgments.
- ii. Generated project and laboratory reports for the client.

**Side Projects**

- i. Developed a Microsoft Excel add-in capable of soil classification, accommodating both the **Unified Soil Classification System** and the **American Association of State Highway and Transportation Officials** classification systems.

**Site Engineer**

**Apr 2020 - Nov 2020**

**Quatran Company Limited**

**Intern**

- Conducted site supervision and implemented Quality Assurance and Quality Control measures during the construction of the solvent extraction plant for Wilmar Africa.

**Roles:**

- i. Ensured precise execution of structural drawings by interpreting and comprehending the drawings accurately.
- ii. Prepared weekly progress reports summarizing all the works completed on-site.

## RESEARCH EXPERIENCE

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**Concrete compressive strength prediction**

**Apr 2021 - Nov 2021**

- Employed various machine learning techniques to develop models for predicting the 28th day compressive strength of concrete. [Project link](#)

## TECHNICAL SKILLS

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- **Programming Languages:** Python | C | C++
- **Deep Learning Frameworks:** Pytorch
- **Machine Learning:** Scikit-learn | XGBoost
- **Data Analysis:** Pandas | Numpy
- **Software:** Microsoft Office Excel | Latex | AutoCad

## PERSONAL PROJECTS

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- **geolab**: An open-source software for geotechnical engineering analysis and modelling. [Project link](#)
- **makepackage**: A Python package for packaging python code. (*Contributor*) [Project link](#)

## RESEARCH INTEREST

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## REFERENCES

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[\[Available upon request\]](#)