Julisa Bana Abraham

DOB: July 20, 1994 Height | Weight: 170 cm | 62 kg

CONTACT

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"Analytical, emphatic, and eager learner engineering physics fresh graduate"

WORK EXPERIENCE

PT. Spektra Megah Semesta — February 2016 — March 2016

Intern

Established in 1996, PT. SPEKTRA MEGAH SEMESTA is a privately owned, independent corporation dedicated to excellence in material quality control, Inspection services, non-destructive testing, hydrostatic testing services and PSV's laboratory services. Those commitments are the key to SMS track record of success in the world of international business. As an intern I had learned many NDT techniques such as magnetic testing, penetration testing, ultrasonic testing, and radiographic testing to ensure system integrity and quality.

KULIAH KERJA NYATA — June 2015 — August 2015

Volunteer

KKN is a graduation requirement of UGM students. The purpose of KKN is to help solving the national problem including poverty, unemployment, poor area/district, and discrepancy in society. I was an event leader of the Independence Day annual event that colloquially known as tujuhbelasan in Indonesia. I was responsible for conducting what event should be carried out and organize them properly based on the local culture.

QUALIFICATIONS

IT

I am skilled in some programming languages such as C++, Python (5^{th} percentile in hackerrank algorithm), MATLAB, Ruby. I have appropriate knowledge about Linux based system administration including shell scripting and basic computer networking. I am able to conduct penetration testing with appropriate tools that provided in Kali Linux distribution (Have a Penetration Testing and Ethical Hacking certificate from cybrary.it) also I am able to create a python script and shell script for conducting penetration testing.

Engineering

I am familiar with many engineering skills such as Computer Aided Design (CAD) with AutoCAD, Solidworks, and CATIA, Electrical design and Simulations with MultiSim, Computational Fluid Dynamics (CFD) with ANSYS Fluent, Programmable Logic Controller (PLC) with Unity Pro XL, Supervisory control and data acquisition (SCADA) with Vijeo Citect (both PLC and SCADA were certified by UGM-Scheneider Electric Training center), Nuclear reactor accident analysis with RELAP5-3D

Finance

I understand about the concept of personal finance, basic accounting, security analysis, and macroeconomics. (With edX-Purdue University certification)

EDUCATION

Modicon M340 Programmable Logic Controller and Vijeo Citect SCADA Training
13 March 2017 — 16 March 2017

Universitas Gadjah Mada - Scheneider Electric

Departement of Engineering Physics
September 2012 — March 2017

Sarjana Teknik (S.T) (Bachelor of Engineering)

Universitas Gadjah Mada

Majoring in Nuclear Engineering with GPA 3.04 out of 4.0

Pelatihan Radiokimia
30 November - 4 Desember 2015

Pusdiklat Badan Tenaga Nuklir Nasional

RELEVANT EDUCATION AND COURSE WORK

- Artificial Intelligence (87%)
- Computational Methods (87%)
- Numerical Methods (75%)
- Thermodynamics (100%)
- Engineering Economics (87%)
- Signals and Systems (87%)

INTERESTS

- **Finance**, I'm interested in finance especially about investing. The idea about puting money in someone else business and watching it grow is very compelling. I have learned about investing philosophies such as fundamental and technical analysis
- **Cyber security**, I'm learning about cybersecurity as protection, because recently almost anyone can compromise a weak or out-dated system. I have learned many penetration testing techniques that usually used to compromise a system.
- **Basketball,** because it's fun and competitive. I'm playing as a point guard who's responsible for distributing the ball the best way possible and assesing the situation.
- **Reading**, as Warren Buffett said "read 500 pages every week. That's how knowledge builds up, like compound interest." So I read to gain more knowledge, I think it's necessary to gain knowledge as much as possible to attain a better future.
- **Data Mining and Machine Learning**, anything that can be perceived is data, that makes data science is so powerful and intriguing.

LANGUAGES

Native Javanese and Indonesian, proficient in English (530 TOEFL PBT score).

ORGANIZATION

Kommun (Komunitas Muda Nuklir) is a non-profit research community about nuclear technology socialization. As an R&D team, I am responsible for providing recent information about nuclear technology.

UKM (Unit Kegiatan Mahasiswa)-Tennis I was drafted into first string team in 2012, as a first string team, I was responsible for mentoring lower string team and practicing for upcoming competition.
MiNOR (Komunitas Mahasiswa Riset Nuklir Reaktor) as the name implies, it's a study group for nuclear reactor, I learned much about any type of nuclear reactor technology and design there.

PERSONAL PROJECTS

GitHub: https://github.com/banaabraham

- Created some cyber security tools including SMB, FTP, SSH, web directory bruteforcer and system security scanner with python programming language.
- Created stock price analyzer that can fetch the price from internet and calculating risk and return with python and stock market price predictor (uses beta from stock price history and random generator from MATLAB) with MATLAB.
- Created a script for perceiving public sentiment about something in twitter with Python programming language.
- Created a program for calculating and determining the best stock portfolio based on its covariance with Python programming language.
- Created a GUI program for ploting stock price history in candle chart and plot its prediction price based on radial basis function, linear regression, and neural network calculations with Python programming language.
- banaabraham.github.io

Thesis:

Thermalhydraulic Analysis of Silicon Carbide and Zirconium Alloy as Cladding Material for Pressurized Water Reactor (PWR) During Large Break Loss of Coolant Accident (LBLOCA) In RELAP5-3D