Caio **Davi**

Ph.D. Student at Texas A&M University

+1(979)777-7996 | caio.davi@tamu.edu | caio-davi | caio-davi

Objective

Seeking Curricular Practical Training Position for Summer 2021.

Experience

Texas A&M Health Science Center — *College Station, Texas*

Graduate Assistant Non-Teaching — *2019-now*

- Implemented several Dockerized applications.
- Implemented several API microservices in python Flask and Node.js.
- Created a GraphQL API to easily query and manipulate data flow in applications.
- Worked with several Database Management Systems, including MS Sql Server, MongoDB and PostgreSQL.

Federal Institute of Education - IFPE — *Recife, Brazil*

Teacher — *2015-2019*

- Course coordinator for 3 years.
- Taught several computer science courses at an associate-level degree program, such as Operating Systems, Management Information Systems, Programming Languages, etc.
- Member of their Machine Learn Research Group.

Foundation for Technological Innovations - FITec — *Recife, Brazil*

System Engineer — *2012-2015*

- Collaborated in the 3G seting up for all Claro IP/MPLS network.
- Managed OSPF/ISIS/BGP routing protocols in Alcatel routers.
- Implemented several Alcatel LLD (Low Level Design) solutions.
- Coordinator of the SMT Manufacturing Line and PCB Assembly Process at N3 Computadores.

Telehealth Nucleus - NUTES/UPE — *Recife, Brazil*

Technological and Industrial Development Researcher - CNPq Scholarship — *2010-2012*

- Windows Server 2008 Maintainer
- Hosted almost one hundred video-conferences between medical facilities in the Pernambuco state.
- Set up and maintaining Nutes web site.

University of Pernambuco - UPE — *Recife, Brazil*

Internship/Computer Network Technician — *2007-2009*

- Network Technician(1.5 year) responsible for maintaining the University network.
- Intern (10 months) responsible for set up and maintaining LAMP web sites.

Education

Texas A&M University — *College Station, Texas*

Ph.D. in Electrical Engineering — *2022 (Expected)*

University of Pernambuco — *Recife, Brazil*

M.Sc. in Systems Engineering — *2012*

University of Pernambuco — *Recife, Brazil*

B.Sc. in Computer Engineering — *2010*

Skills

Programming	Python, PHP, Java, SQL, Matlab
Machine Learning	PyTorch, Keras, TensorFlow, Scikit-learn
WEB	Express.js, React, GraphQL, Flask
Softwares	Linux, LaTeX, Git, Docker
Languages	Portuguese, English

Awards

TamuHACK'20 *College Station, Texas*

3rd Project Overall, Baker Hughes Challenge Winner *2020*

- Over than 140 projects and 700 participants.
- We created GreenShip, an application for ride-sharing freight of raw materials between suppliers and customers.
- Built as Docker containerized applications using MongoDB, python Flask and React.js.

Brazilian Symposium on Bioinformatics 2018 *Niteroi, Brazil*

Best Short Paper *2018*

- Computational intelligence applied to human genome data for the dengue severity prognosis. In 11th Brazilian Symposium on Bioinformatics.
- This paper proposes an algorithm to create prognoses for Dengue Disease using state-of-art Machine Learning Techniques, such as SVM and Neural Network.

Work Authorization

F1 Visa Eligible to work in the US with Curricular Practical Training (CPT)

Publications

Caio Davi, U. Braga-Neto. A Semi-Supervised Generative Adversarial Network for Prediction of Genetic Disease Outcomes. LatinX in AI at NeurIPS 2020 (*Submitted*). arXiv:2007.01200, 2020.

Caio Davi, A. Pastor, T. Oliveira, F. B. L. Neto, U. Braga-Neto, A. Bigham, M. Bamshad, E. T. Marques, and B. Acioli-Santos. Severe dengue prognosis using human genome data and machine learning. IEEE Transactions on Biomedical Engineering, 2019.

Caio Davi, A. Pastor, T. Oliveira, F. B. Lima Neto, U. Braga-Neto, A. W. Bigham, M. Bamshad, E. T. A. Marques, and B. Acioli-Santos. Computational intelligence applied to human genome data for the dengue severity prognosis. In 11th Brazilian Symposium on Bioinformatics (BSB 2018). SBC, 2018.

Caio Davi, D. S. Silveira, and F. B. de Lima Neto. A framework using computational intelligence techniques for decision support systems in medicine. IEEE Latin America transactions, 12(2):205–211, 2014.

Caio Davi, M. G. Lacerda, F. R. Oliveira, F. B. de Lima Neto, and R. A. M. Melo. Intelimed-sistema de apoio ao diagnóstico médico baseado em técnicas de inteligência computacional. WIM - XI Workshop de Informática Médica, 2011.

Caio Davi, E. M. Egito, P. H. E. Oliveira, and R. F. Dutra. Low cost electrochemical biosensor development. Anais COBENGE - Congresso Brasileiro de Educação em Engenharia, 2011.