Kurt Peek

Curriculum Vitae

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Analytical software engineer with a strong background in mathematics and physics

Experience

2018–present **Software Engineer**, *Cleolabs Inc*.
Cleo (formerly known as LUCY) provides support to expecting parents through a benefits package for family-forward employers. Our app guides women through pregnancy and allows them to consult our in-house team of experts and book support services. I contribute mainly to the app's Django backend and our internal dashboard tools.

2016–2017 **Backend Engineer**, *IperLane Inc*.
IperLane (now part of Crowdstrike) built a mobile device management (MDM) system which enabled organizations to protect sensitive data on their employees' mobile devices. I was responsible for the server side of the platform and implemented access control rules and anomaly detection based on (anonymized) data from the devices' sensors.

2012–2016 **Geophysicist**, *NAM B.V. (a Shell-ExxonMobil joint venture)*.
Contributed to increasing the success rate of exploration drilling by screening prospects for anomalies on 3D seismic indicating the presence of hydrocarbons.

2008 **Intern**, *Thales Netherlands B.V.*
Simulated and analyzed novel digital signal processing algorithms to compensate for phase errors in the transmitted signal of frequency-modulated continuous-wave (FMCW) radars.

2006 **Intern**, *Stanford University*.
Contributed to efforts to synthesize a thin film of a homolog of a high-T_c superconductor.

Education

2011 **M.Sc., Applied Mathematics**, *University of Twente*.
Graduated from the Mathematical Systems & Control Theory (MSCT) group. Coursework included numerical methods, scientific computing, time series analysis, and stochastics.

2011 **M.Sc., Applied Physics**, *University of Twente*.
Graduated from the Complex Photonic Systems (COPS) group. Coursework included advanced optics, signal processing, quantum mechanics, and solid state physics.

2007 **B.Sc., Applied Physics**, *University of Twente*.
Taught seminars in mathematics and Matlab. Member of the varsity crew team and later captain of the varsity track team.

Skills

- Extensive experience with Python for web development and RESTful APIs (Django, Flask), mathematical modeling, data analysis, and machine learning (NumPy, SciPy, pandas, scikit-learn), testing (unittest, Pytest), parsing (regular expressions, PyParsing), and web scraping (Scrapy)
- Experience with relational (PostgreSQL), noSQL (RethinkDB), and in-memory (Redis) database systems and ORMs (Django ORM, SQLAlchemy)
- Experience with microservices (Docker, RabbitMQ), continuous integration (Gitlab-CI, CircleCI), and cloud services (AWS, Heroku, Google Cloud, Aptible)

- Experience in web design (HTML5/CSS3, Sass, Javascript (React, jQuery)) and UI frameworks (Bootstrap 4, Materialize)
- Proficiency in mobile development with React Native

Courses

2017 **Algorithms**, *Coursera (Stanford University)*.
4-course specialization covering divide-and-conquer methods, graph algorithms, greedy algorithms, dynamic programming, and NP-complete problems.

2016 **Machine Learning**, *Coursera (Stanford University)*.
Broad course on machine learning covering linear and logistic regression, neural networks, anomaly detection, and dimensionality reduction.