

# Nathaniel Kai Eubanks

Arlington, VA

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## TECHNICAL SKILLS AND LANGUAGES

**Programming Languages:** C#/.NET, Java, Python, Javascript/Typescript, React, SQL

**Technological Skills:** UNIX/Linux, Git, Jira, UX Design, Agile, Microsoft Office, Technical Design

**Favorite Personal Projects:**

- Terrain Generator, Pathfinder, and Train Sim (Java): Generate world for optimized networks of trains
- Physics Simulator (Javascript, C): N-body problem; spring-connected charged masses; other variants

**Other:** Mandarin Chinese, Violin, Ukulele, Firefighting and EMS, Woodworking, Ballroom Dance, Cycling

## RELEVANT SOFTWARE EXPERIENCE

**Software Engineer II**, Applied Predictive Technologies / Mastercard; *Arlington, VA* Aug 2018 – Pres.

**Advanced Investment Management Forecasting Team** (C#, SQL, React; Full Stack)

- Worked on credit card performance prediction software used by major banks
- Optimized event-loading SQL query to reduce front end load time by up to 90%
- Implemented *Portfolio Forecasts* front and back end to generate batched predictions
- Investigated and solved 20+ production issues using Splunk logs and SQL

**Mastercard Intelligence Center Scalability Team** (C#, SQL, Azure; Infrastructure)

- Worked on extract/transform/load pipeline for Azure migration of Mastercard transaction data
- Implemented Azure active directory token-based authentication

**Other**

- Reviewed and selected resumes for entry level and internship position candidates
- Led new-hire bootcamp and SQL training for 3 incoming college new-hire and intern classes
- Helped found and lead office disability advocacy group

**Software Engineering Intern**, Appian Corp.; *Reston, VA* June – Aug 2017

Contributed to Appian Business Process Management Software (Java; Full Stack)

- Added *Drill-Down Bar Charts* for multi-level data accessibility
- Added *Export Arbitrary Records to Excel* for cross-app compatibility

**Junior Software Developer (Intern)**, Optimal Satcom Inc.; *Herndon, VA* May – Aug 2016

Contributed to space-telecommunications capacity management software (C#, Full Stack)

- Upgraded table displays to use DevExpress Grid UX Component
- Implemented transmission-loss modeling to match ITU standards
- Created automated testing and conditional formatting in generated Excel files

**Teaching Assistant**, ECE 2066 Science of Information; *Charlottesville, VA* Jan – May 2016

**Research Assistant**, UVA Rotating Machinery and Controls; *Charlottesville, VA* May – Sept 2015

- Updated legacy Fortran code and programmed VB code for vibration analysis

**Development Intern**, iStrategyLabs; *Dupont Circle, DC* July – Aug 2013

- Designed, 3D printed, soldered, and programmed robot to write tweets using a marker

## EDUCATION

**Conferences:** Black Hat/DEF CON 2018

**University of Virginia**, School of Engineering (GPA: 3.844/4); *Charlottesville, VA* May 2018

- Bachelor of Science in Computer Science
- Relevant Coursework: Algorithms, AI, Cloud Comp., Comp. Networks, Databases, HCI/UX, Machine Learning, Mobile Apps, NLP, Net. Security, Parallel Comp., Web Apps

**Thomas Jefferson High School for Sci. and Tech.** (GPA: 4.39/4); *Alexandria, VA* June 2014