Matt **McGinnis**

ASSOCIATE SOFTWARE ENGINEER WITH TRAVELERS

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Education

University of Delaware   *Newark, DE*
PH.D. & M.S. IN MATHEMATICS   *May 2013 - May 2018*
- Dissertation: Combinatorial and Spectral Properties of Graphs and Association Schemes

University of North Carolina Asheville   *Asheville, NC*
B.A. IN MATHEMATICS   *Aug. 2009 - May 2013*

Experience

Travelers   *Raleigh, NC*
ASSOCIATE SOFTWARE ENGINEER   *Sep. 2021 - Present*
- Currently maintain and develop the Bond Claim Management System application, the Letter Genie application as well as other applications within the Bond and Specialty Insurance division.
- Development stack includes VB.NET, C#, .NET, Javascript, Microsoft SQL Server, MongoDB, AWS and Git.

Farragut Systems   *Durham, NC*
SOFTWARE DEVELOPER I   *Nov. 2018 - June 2021*
- Maintained and developed both legacy desktop applications and freshly deployed web applications.
- Led and co-piloted several projects including the conversion of Matlab code to an Azure Web App, refactoring and data migration of a financial data reporting application for the Pennsylvania Compensation Rating Bureau and much more.
- Development stack included C#, .NET, Oracle SQL, Microsoft SQL Server, Azure Devops, Git, Subversion and Docker

University of Delaware   *Newark, DE*
ADJUNCT PROFESSOR, INSTRUCTOR & TEACHING ASSISTANT   *Aug. 2013 - July 2018*
- Math 242: Analytic Geometry and Calculus B. Topics include exponential and logarithmic functions, sequences, series, integration techniques, parametric curves and polar coordinates.
- Math 241: Analytic Geometry and Calculus A. Topics include functions, limits, differentiation and integration.
- Math 230: Finite Mathematics with Applications. Topics include set theory, probability, optimization, linear programming and introductory matrix methods.
- Math 210: Discrete Mathematics I. Topics include set theory, logic, induction, counting, introductory graph theory and power series.

University of Delaware   *Newark, DE*
RESEARCH ASSISTANT   *Aug. 2013 - May 2018*
- Used eigenvalues of matrices associated with graphs to obtain results about structural and combinatorial properties.
- Developed and maintained Python code to search for subgraphs with specific structural properties and published results.

Software Development

Python 3, C# & .NET, SQL, Git
EXPERIENCE
- Four years professional experience working with SQL, C# / .NET Framework and Git.
- Six years experience with Python 3. It is my language of choice for personal projects. I am just as comfortable with Python 3 as C# and am looking to transition to a role where I get to use my knowledge of Python on a daily basis.

Familiar
HTML5, CCS3, BASH AND GIT

Publications

- ***The smallest eigenvalues of Hamming graphs, Johnson graphs and other distance-regular graphs with classical parameters***
A.E. Brouwer, S.M. Cioabă, F. Ihringer & M. McGinnis
to appear in *J. Combin. Theory Ser. B* (2018).

- ***Cospectral mates for the union of some graphs in the Johnson scheme***
S.M. Cioabă, W.H. Haemers, T. Johnston & M. McGinnis
Linear Algebra Appl. **539** (2018), 219–228.