PREFACE

This thesis represents the culmination of a challenging yet rewarding journey into enhancing the security and efficiency of e-KYC systems through innovative cryptographic techniques. Focused on reducing the data search time within blockchain environments, this research integrates searchable symmetric encryption with a turbulence-padded chaotic map—a novel approach that not only addresses the inefficiencies of traditional methods but also maintain the cryptographic backbone of the system.

This thesis is dedicated to advancing the field of secure data management in e-KYC applications, and I hope it serves as a valuable contribution to the ongoing evolution of cybersecurity in financial technology.

Bandung,

Lalu Raynaldi Pratama Putra